

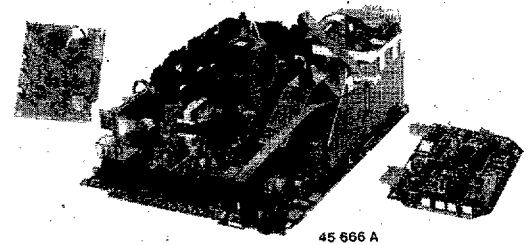
PHILIPS

28PT532A

MODEL

SERVICE MANUAL

Service
Service
Service



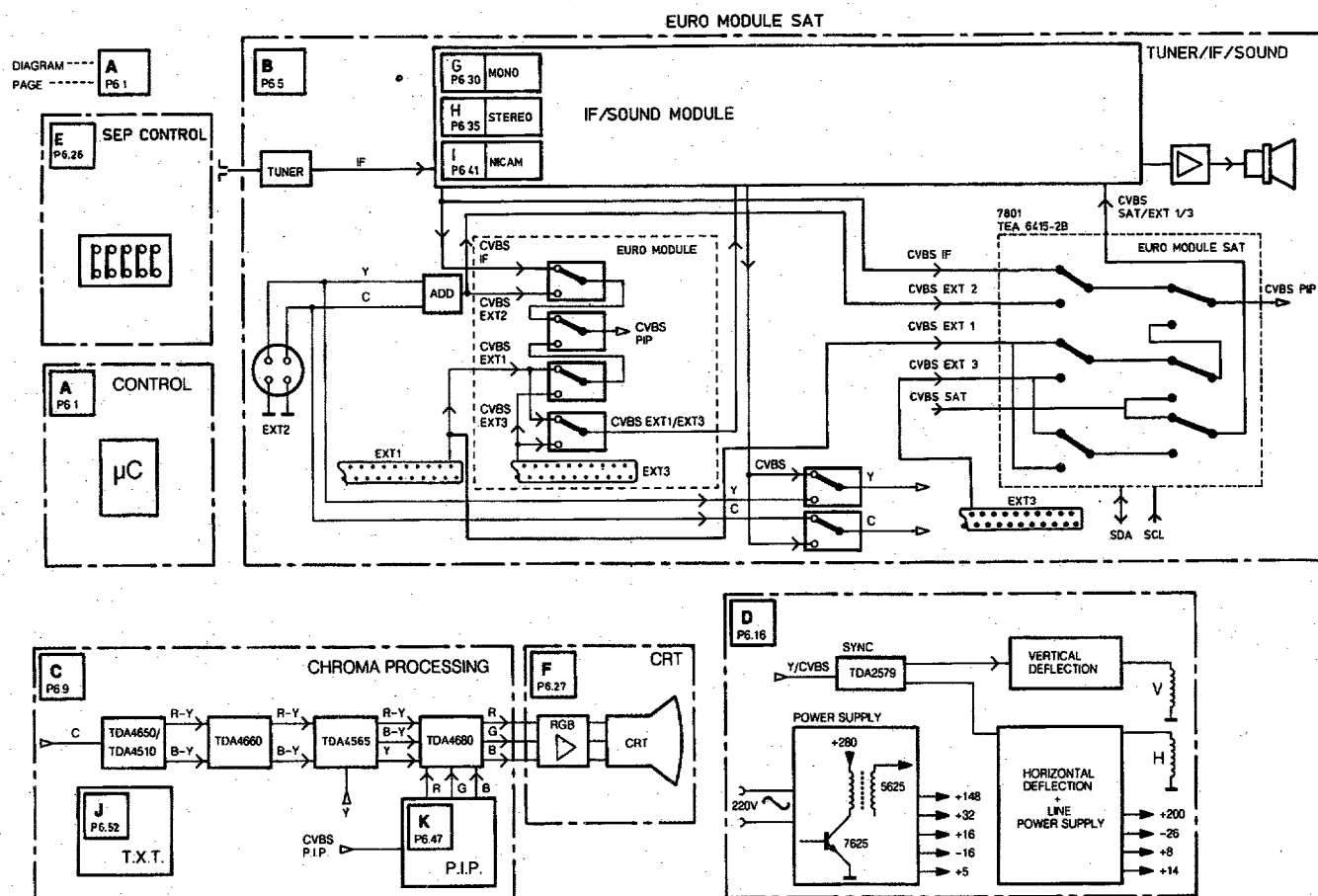
Service Manual

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Block diagram



Technical specification

Mains voltage	:220 - 240 V ($\pm 10\%$)
Mains frequency	:50 Hz ($\pm 10\%$)
Aerial input impedance	:75 Ω - coax
Minimum aerial voltage	:40 μ V
Maximum aerial voltage	:32mV
Pull-in range colour synchronization	: ± 300 Hz
Pull-in range horizontal synchronization	: ± 300 Hz

Local operation functions:

P +; P -; $\triangle$ +; $\triangle$ -; install

Programmes: 0-59

VCR operation on programmes: 0-59

Indications:

- On Screen Display (OSD)
- LED:
 - standby (red)
 - operation (green)
 - RC5 reception (flashing yellow)
 - internal fault in μP (flashing)

Errata

DIAGRAM: SCHALTBILD:	LOCATION: POSITION:	CORRECTION: KORREKTUR:	
(Page/ Seite):		Present situation: Vorliegende Situation:	Corrected situation: Korrekte Situation:
B (6.6)	C20	Item number R3386 Positionsnummer R3386	Item number R3886 Positionsnummer R3886
B (6.7)	O24	Connecting line reference E58 Verbindungsleitung Ref. E58	Connecting line reference D58 Verbindungsleitung Ref. D58
B (6.6)	B14	Connecting line reference A21 Verbindungsleitung Ref. A21	Connecting line reference D21 Verbindungsleitung Ref. D21
C (6.11)	K24	C2366	Delete C2366 C2366 entfernen
C (6.11)	N15 N16	Circuitry with TS7372 Circuitry with TS7374 Schaltung mit TS7322 Schaltung mit TS7374	Delete R3394, TS7372 and short circuit e-c TS7372 Delete R3395, TS7374 and short circuit e-c TS7374 R3394. TS7372 entfernen und Stromkreis e-c TS7372 kurzschließen R3305, TS7374 entfernen und Stromkreis e-c TS7374 kurzschließen
D (6.17)	E17		Add R3537 100k Ω (4822 116 52234) in series with R3539 R3537 100k Ω (4822 116 52234) in Reihe mit R3539 schalten
D (6.16)	A2	Connecting line reference B40 Verbindungsleitung Ref. B40	Connecting line reference B21 Verbindungsleitung Ref. B21
F (6.27/6.28)	D10	cD6301 connected to cTS7305 cD6331 connected to cTS7335 cD6361 connected to cTS7356 cD6302 verbunden mit cTS7305 cD6331 verbunden mit cTS7335 cD6361 verbunden mit cTS7356	cD6301 connected to bTS7305 cD6331 connected to bTS7335 cD6361 connected to bTS7356 cD6301 verbunden mit bTS7305 cD6331 verbunden mit bTS7335 cD6361 verbunden mit bTS7356
PWB mono carrier/Leiter- platte Mono- träger (6.20)	F2	S5561	S5661
Spare parts list/ Stückliste (10.4)		6648-4822 130 34488- BZX79/F12	6648-4822 130 34197- BZX79/B12

Electrical adjustments/Electrische Abgleicharbeiten

Adapted Vg2, white drive, white limiter and cut-off settings: see service information GR2.2 93.02
 Angepaßte Einstellungen für Vg2, Weißabgleich, Weißspitzenbegrenzung und Sperrpunktgleich: siehe Service
 Information GR2.2 93.02

Turn page/Bitte wenden

Modifications during production/Änderungen während der Herstellung

- * Modified line output transformer T5545: see of point 1 of service information GR2.2 93.01
- * Modifizierter Zeilenausgangstransformator T5545: siehe Punkt 1 der Service-Information GR2.2 93.01

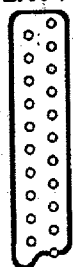
- * Modified CRT panel: see points 2 and 3 of service information GR2.2 93.01
- * Modifizierte CRT-Platine: siehe Punkt 2 und 3 der Service-Information GR2.2 93.01

- * Modified TXT module: see service information GR2.2 93.03
- * Modifiziertes Videtext-Modul: siehe Service-Information GR2.2 93.03

- * Modified IF module: see service information GR2.2 94.01
- * Modifiziertes ZF-Modul: siehe Service-Information GR2.2 94.01

1. Specification of the terminal sockets

EXT1



- 1 - Audio $\oplus$ R ($0,5V_{RMS} \leq 1k\Omega$)
- 2 - Audio $\ominus$ R ($0,2 - 2V_{RMS}; 0,5 V_{nom} \geq 10k\Omega$)
- 3 - Audio $\oplus$ L ($0,5V_{RMS} \leq 1k\Omega$)
- 4 - Audio $\ominus$ L ($0,2 - 2V_{RMS}; 0,5 V_{nom} \geq 10k\Omega$)
- 5 - Blue $\perp$
- 6 - Audio $\oplus$ L ($0,2 - 2V_{RMS}; 0,5 V_{nom} \geq 10k\Omega$)
- 7 - Blue $\ominus$ L ($0,7V_{pp}/75\Omega$)
- 8 - RC5 $\oplus$ ($500-800mV_{pp}$) + CVBS-Status 1 $\ominus$ ($0-2V$: int.; $9,5-12V$: ext.)
- 9 - Green $\perp$
- 10 - -
- 11 - Green $\ominus$ ($0,7V_{pp}; 75\Omega$)
- 12 - -
- 13 - Red $\perp$
- 14 - -
- 15 - Red $\ominus$ ($0,7V_{pp}; 75\Omega$)
- 16 - RGB-Status ($0-0,4V$: int. $1-3V$ ext. 75Ω)
- 17 - CVBS $\oplus$ $\perp$
- 18 - CVBS $\ominus$ $\perp$
- 19 - CVBS $\oplus$ ($1V_{pp}/75\Omega$)
- 20 - CVBS $\ominus$ ($1V_{pp}/75\Omega$)
- 21 - Earth screen

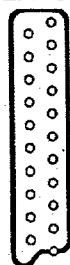
EXT2



2x $\odot$

- 1 - $\perp$
 - 2 - $\perp$
 - 3 - Y $\ominus$ ($1V_{pp}; 75\Omega$)
 - 4 - C $\ominus$ ($1V_{pp}; 75\Omega$)
- CINCH Audio $\ominus$ L+R ($0,2-2V_{RMS}; 0,5 V_{nom} \geq 10k\Omega$)

EXT3



- 1 - Audio $\oplus$ R ($0,5V_{RMS} \leq 1k\Omega$)
- 2 - Audio $\ominus$ R ($0,2 - 2V_{RMS}; 0,5 V_{nom} \geq 10k\Omega$)
- 3 - Audio $\oplus$ L ($0,5V_{RMS} \leq 1k\Omega$)
- 4 - Audio $\ominus$ L ($0,2 - 2V_{RMS}; 0,5 V_{nom} \geq 10k\Omega$)
- 5 - -
- 6 - Audio $\oplus$ L ($0,2 - 2V_{RMS}; 0,5 V_{nom} \geq 10k\Omega$)
- 7 - -
- 8 - CVBS status 3 $\oplus$ ($0-2V$: int.; $9,5-12V$: ext.)
- 9 - -
- 10 - -
- 11 - -
- 12 - -
- 13 - -
- 14 - -
- 15 - -
- 16 - -
- 17 - CVBS $\oplus$ $\perp$
- 18 - CVBS $\ominus$ $\perp$
- 19 - CVBS $\oplus$ ($1V_{pp}/75\Omega$)
- 20 - CVBS $\ominus$ ($1V_{pp}/75\Omega$)
- 21 - Earth screen

Audio out

2x $\odot$

CINCH Audio $\oplus$ L+R ($0,5V_{RMS} \leq 1k\Omega$)

Front



$\geq 8\Omega$

2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.2 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

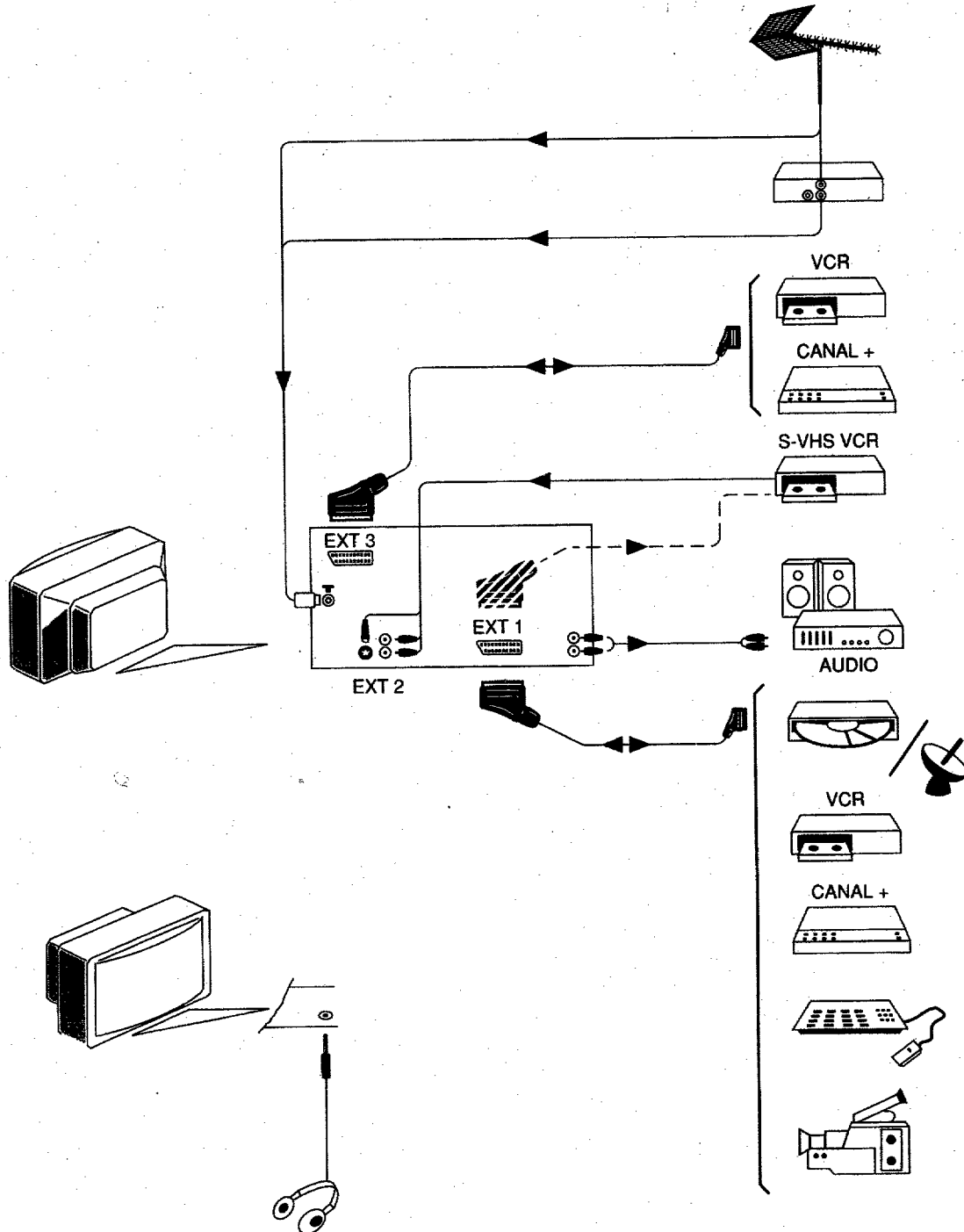


Fig. 2.1

1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath and possibly under the EXT 3 connection (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.

2. Service position 1

Service position for module service and to measure test points

Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).

In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

3. Service position 2

Service position for repair

Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).

Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!

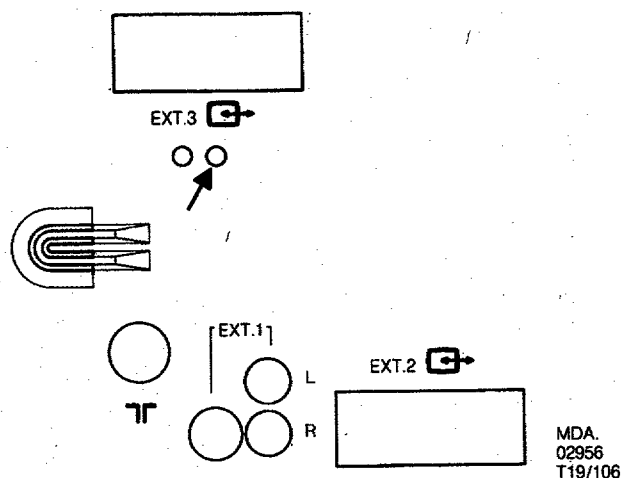


Fig. 4.1

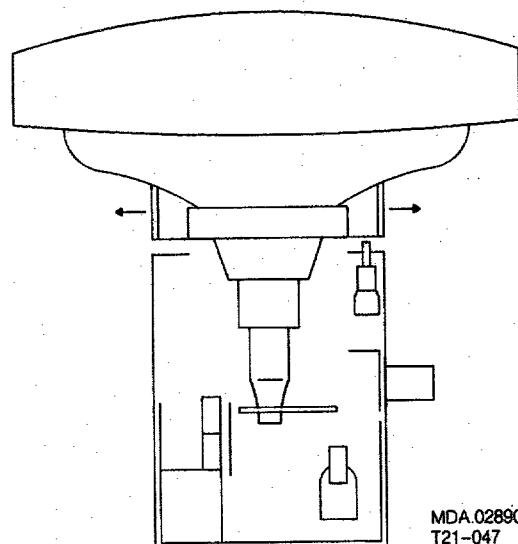


Fig. 4.2

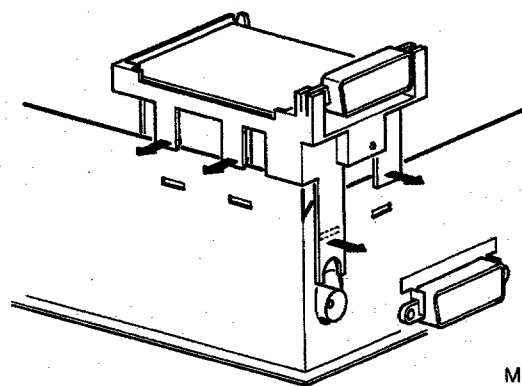


Fig. 4.3

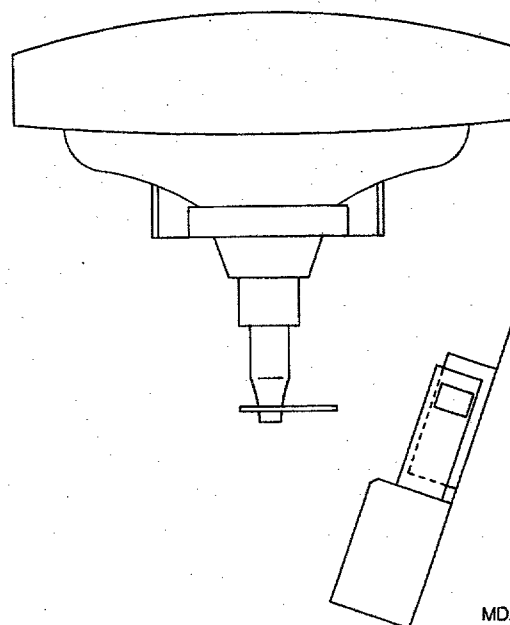


Fig. 4.4

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol .
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0V (after approx. 30s).
3. **ESD** 
All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools.
This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.
11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

1. The cold chassis direct voltages and oscillograms should be measured with regard to the tuner earth ($\perp$). Voltages on the line mains side of the SOPS transformer 5625 should be measured with respect to ($\perp$).
2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).
3. Where necessary, the oscillograms and direct voltages are measured with ($\perp$) and without aerial signal ($\times$). Voltages in the power supply section are measured both for normal operation ($\textcircled{D}$) and in standby ($\textcircled{O}$). These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
The order numbers of these extension cards are:
* 6 times: 4822 395 30259
* 8 times: 4822 214 31402
8. Both multisystem and single system units are mentioned in this documentation.
The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems.
A multi-system set for Eastern-Europa is suitable for the reception of the PAL/SECAM BGDK systems. The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).
9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

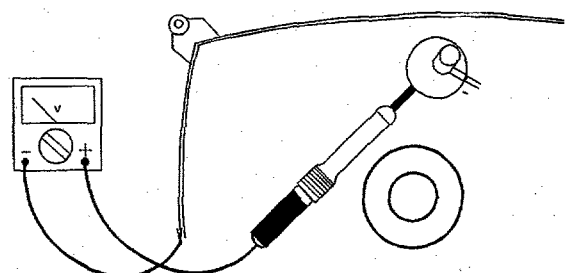
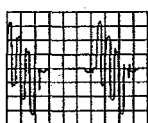
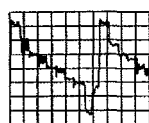


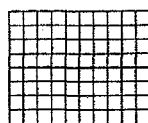
Fig. 3.1



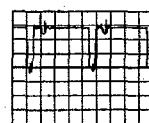
TP 1
0,2 V/div AC
20 μ S/div



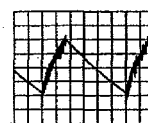
TP 8
50 mV/div AC
10 μ S/div



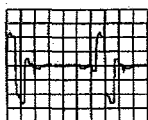
TP 14 ϕ
0,2 V/div DC
0,5 mS/div



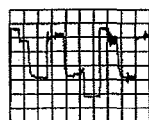
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5 μ S/div



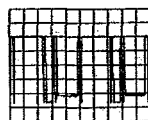
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5 mS/div



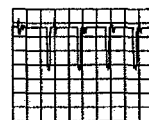
TP 2
0,2 V/div AC
20 μ S/div



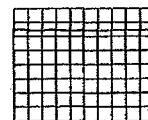
TP 9
0,5 V/div AC
10 μ S/div



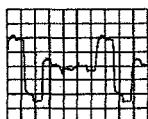
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0,2 mS/div



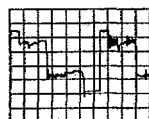
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10 μ S/div



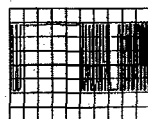
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1 V/div DC



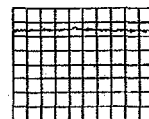
TP 3
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10 μ S/div



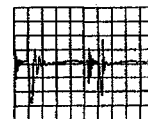
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10 μ S/div



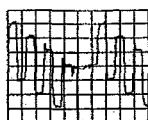
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0,1 mS/div



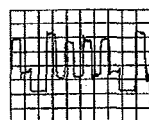
TP 22
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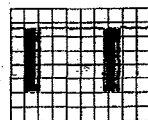
TP 27 ϕ
50 mV/div AC
10 mS/div



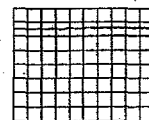
TP 4
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10 μ S/div



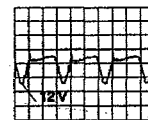
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0,5 V/div AC
10 μ S/div



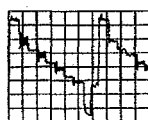
TP 17
1 V/div DC
20 mS/div



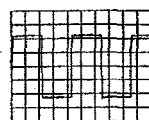
TP 23
1 V/div DC



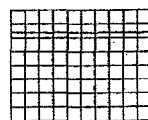
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5 μ S/div



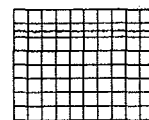
TP 5
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10 μ S/div



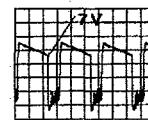
TP 12
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10 μ S/div



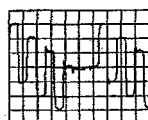
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20 mS/div



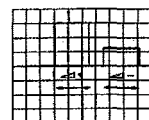
TP 24
5V/div DC



TP 28 ϕ
1 /div AC
10 mS/div



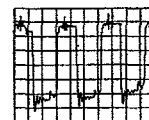
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10 μ S/div



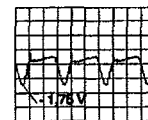
TP 13
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1 S/div



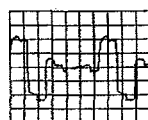
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10 μ S/div



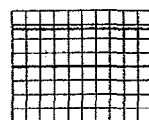
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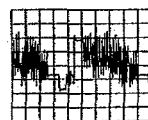
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5 μ S/div



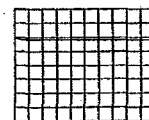
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10 μ S/div



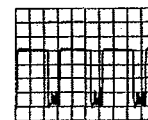
TP 14
1 V/div DC
0,5 mS/div



TP 20
0,5 V/div AC
10 μ S/div



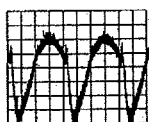
TP 26
1 V/div DC



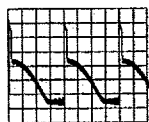
TP 29 ϕ
1 V/div AC
10 mS/div



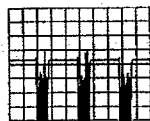
TP 30
2 V/div DC
5 μ S/div



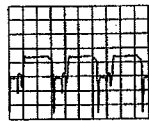
TP 36
0,2 V/div AC
5 mS/div



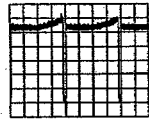
TP 41 b
5 V/div AC
5 mS/div



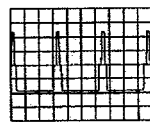
TP 30 d
1 V/div DC
10 mS/div



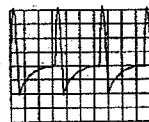
TP 37
2 V/div AC
20 μ S/div



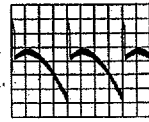
TP 41 c
0,1 V/div AC
5 mS/div



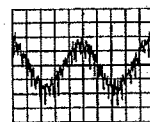
TP 31
2 V/div DC
20 μ S/div



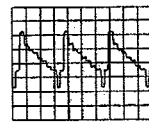
TP 38
20 mV/div AC
20 μ S/div



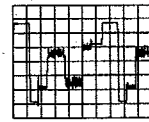
TP 41 d
5 V/div AC
5 mS/div



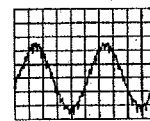
TP 32
50 mV/div DC
0,2 mS/div



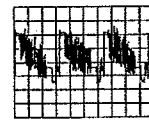
TP 39
0,2 V/div AC
20 μ S/div



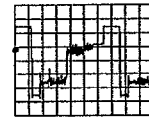
TP 51
130 V_{pp}
115 V_{pp} for 21"



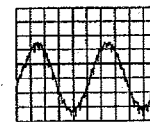
TP 33
2 V/div DC
0,2 mS/div



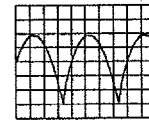
TP 40
0,5 V/div AC
20 μ S/div



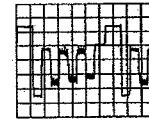
TP 52
120 V_{pp}
115 V_{pp} for 21"



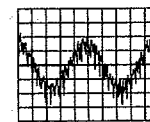
TP 34
2 V/div DC
20 μ S/div



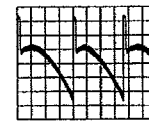
TP 41
2 V/div AC
5 mS/div



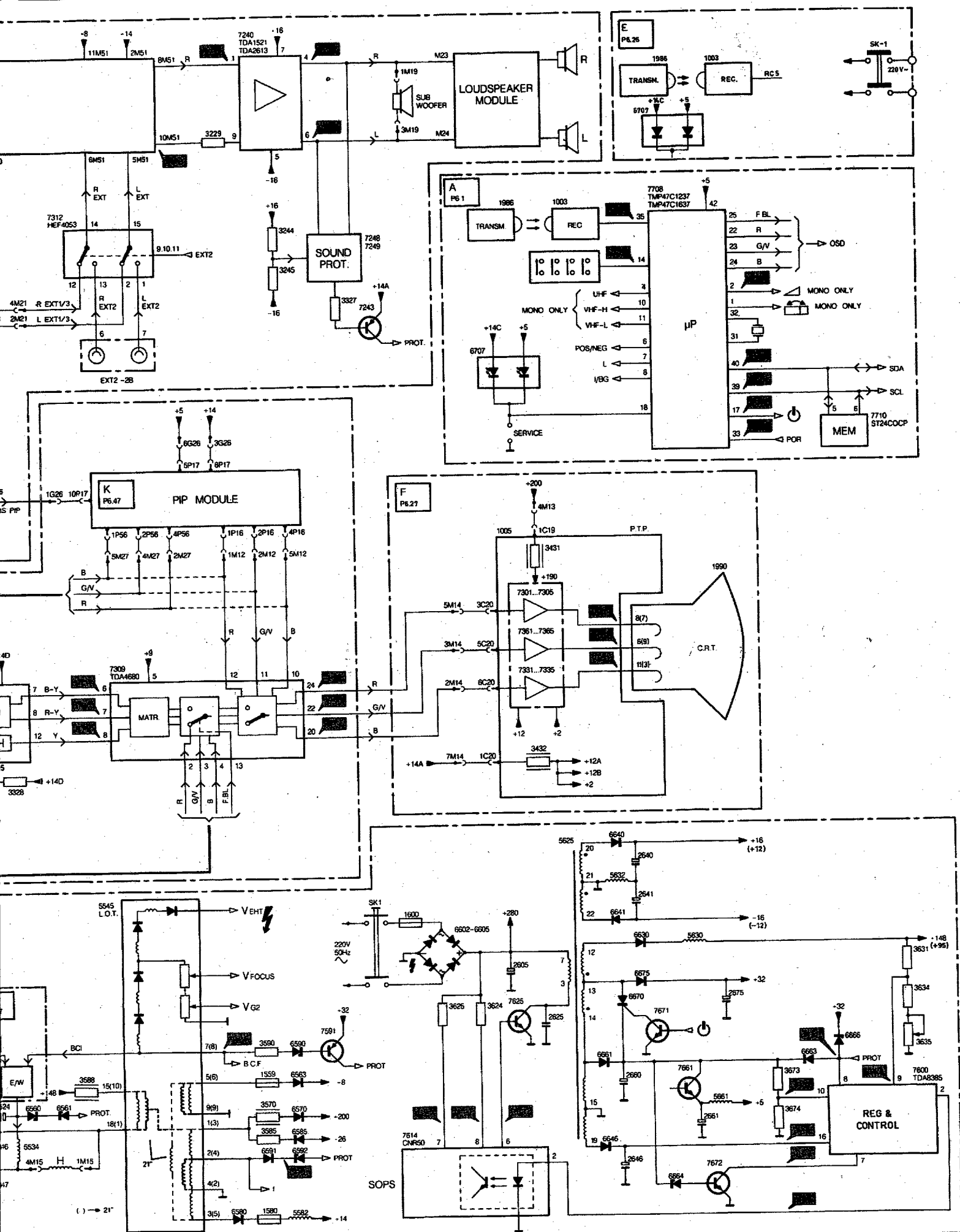
TP 53
120 V_{pp}
110 V_{pp} for 21"

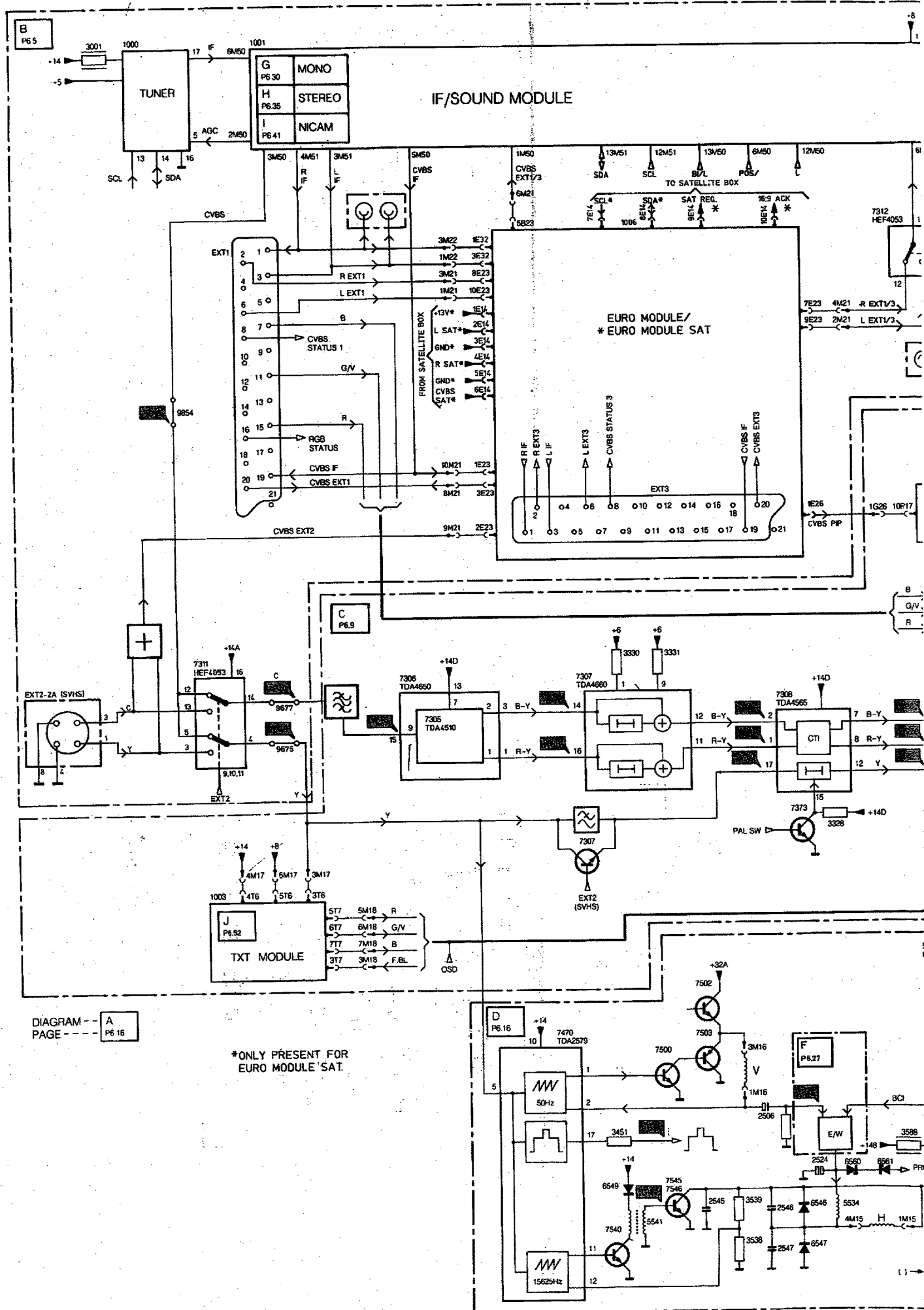


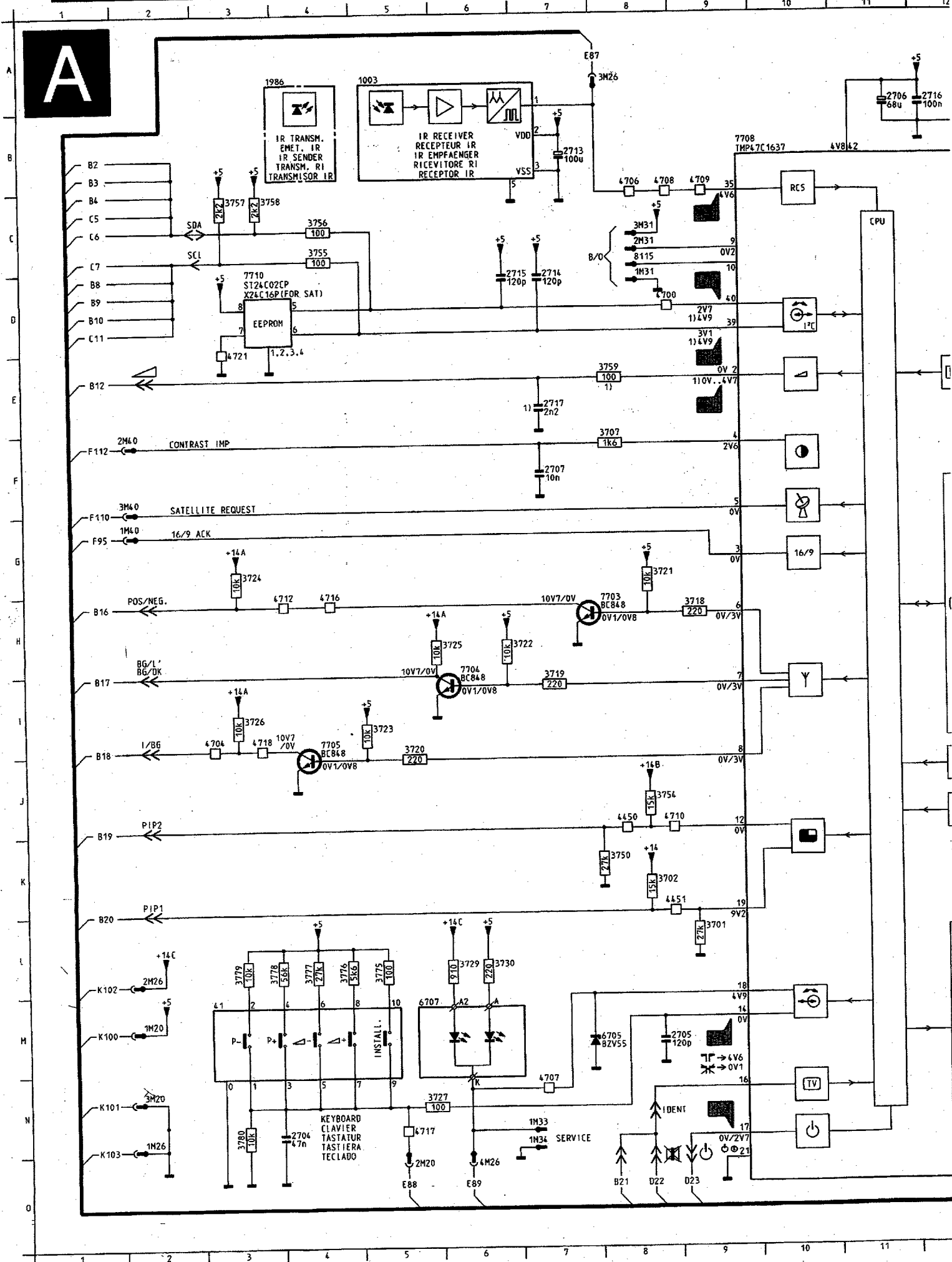
TP 35
50 mV/div DC
0,2 mS/div

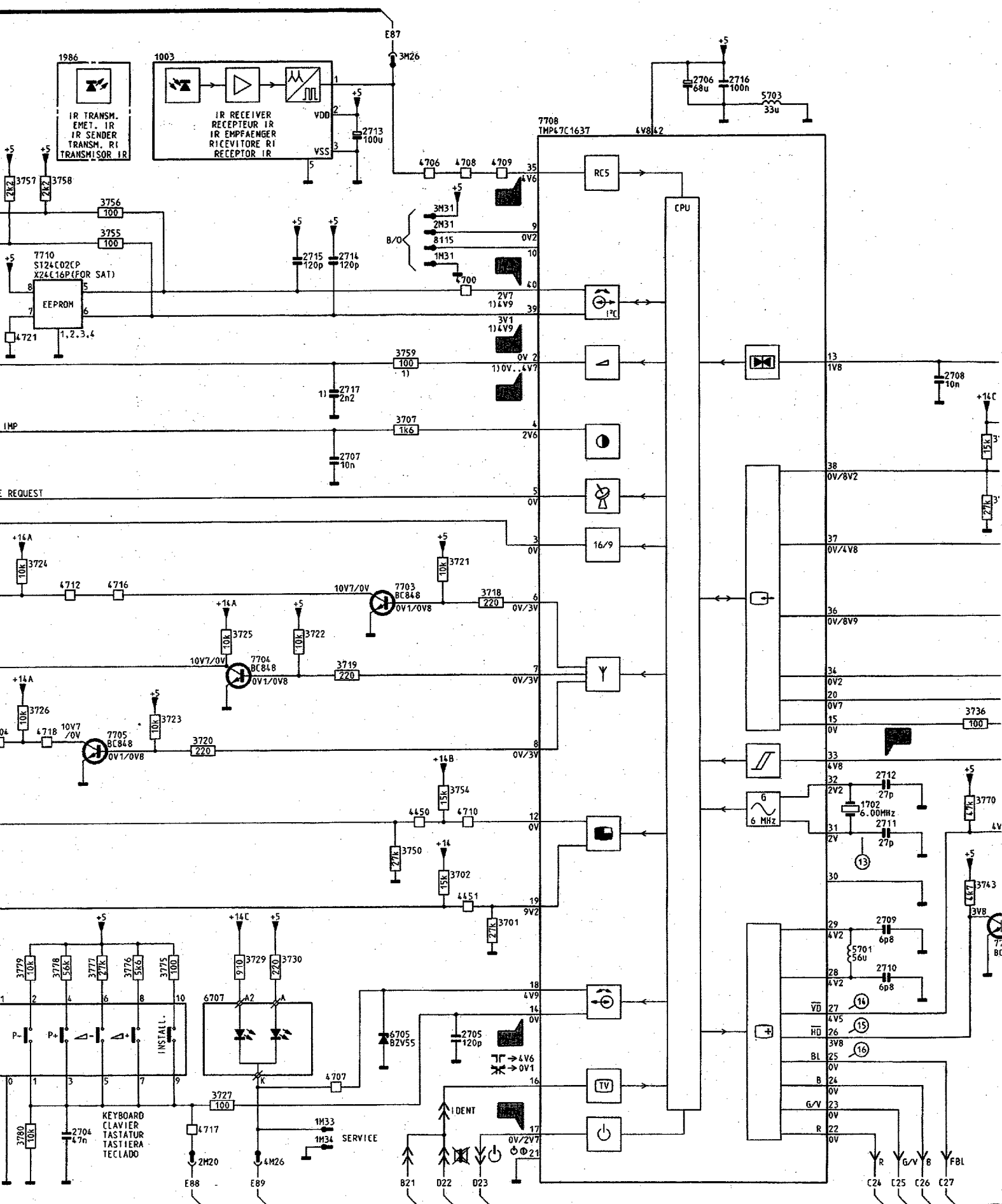


TP 41 a
5 V/div AC
5 mS/div







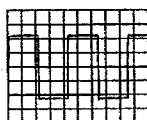


A

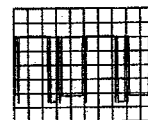


CL 16532100/011, AREF
310192

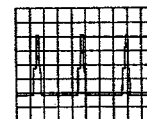
A	1003	A 5
	1702	J13
	1986	A 3
	2M31	C 9
	2704	N 4
B	2705	M 8
	2706	A11
	2707	F 7
	2708	E14
	2709	L14
C	2710	L14
	2711	K14
	2712	J14
	2713	B 7
	2714	D 7
D	2715	D 6
	2716	A12
	2717	E 7
	2718	D16
	2719	J16
E	2720	K16
	2721	K16
	2722	L 9
	2723	F 8
	2724	M 8
F	2725	H 9
	2726	I 7
	2727	I 5
	2728	G 8
	2729	H 6
G	2730	I 5
	2731	G 3
	2732	G 3
	2733	H 6
	2734	N 5
H	2735	I 3
	2736	F 6
	2737	L16
	2738	L16
	2739	K15
I	2740	H16
	2741	G15
	2742	F15
	2743	K 8
	2744	M16
J	2745	F15
	2746	F15
	2747	F15
	2748	J 8
	2749	C 4
K	2750	C 3
	2751	C 3
	2752	E 8
	2753	K16
	2754	J15
L	2755	K17
	2756	L17
	2757	L 5
	2758	L 4
	2759	L 3
M	2760	L 3
	2761	N 3
	2762	J15
	2763	M 3
	2764	J 8
N	2765	B 8
	2766	B 8
	2767	N 7
	2768	B 8
	2769	B 9
O	2770	J 8
	2771	H 4
	2772	H 4
	2773	N 5
	2774	I 3
P	2775	N 3
	2776	E 3
	2777	B12
	2778	M 7
	2779	M 5
Q	2780	K17
	2781	D16
	2782	H 8
	2783	I 4
	2784	K15
R	2785	I 5
	2786	B 9
	2787	D 3
	2788	F 8
	2789	F 8



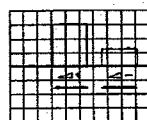
TP 12
1 V/div AC
10 μ S/div



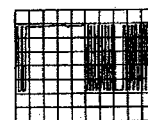
TP 15
1 V/div AC
0,2 mS/div



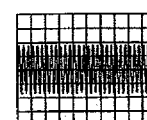
⑫
2 V/div AC
20 μ S/div



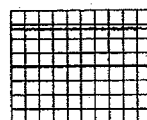
TP 13
1 V/div DC
1 S/div



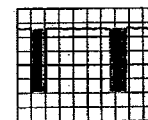
TP 16
1 V/div DC
0,1 mS/div



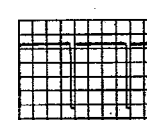
13
1 V/div AC
0,5 μ S/div



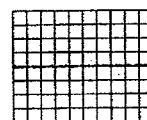
TP 14
1 V/div DC
0,5 mS/div



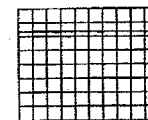
TP 17
1 V/div DC
20 mS/div



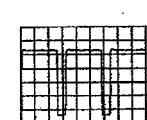
14
1 V/div AC
5 mS/div



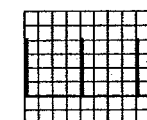
TP 14 ♂
0,2 V/div DC
0,5 mS/div



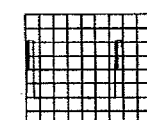
TP 18
2 V/div DC
20 mS/div



15
1 V/div AC
20 μ S/div

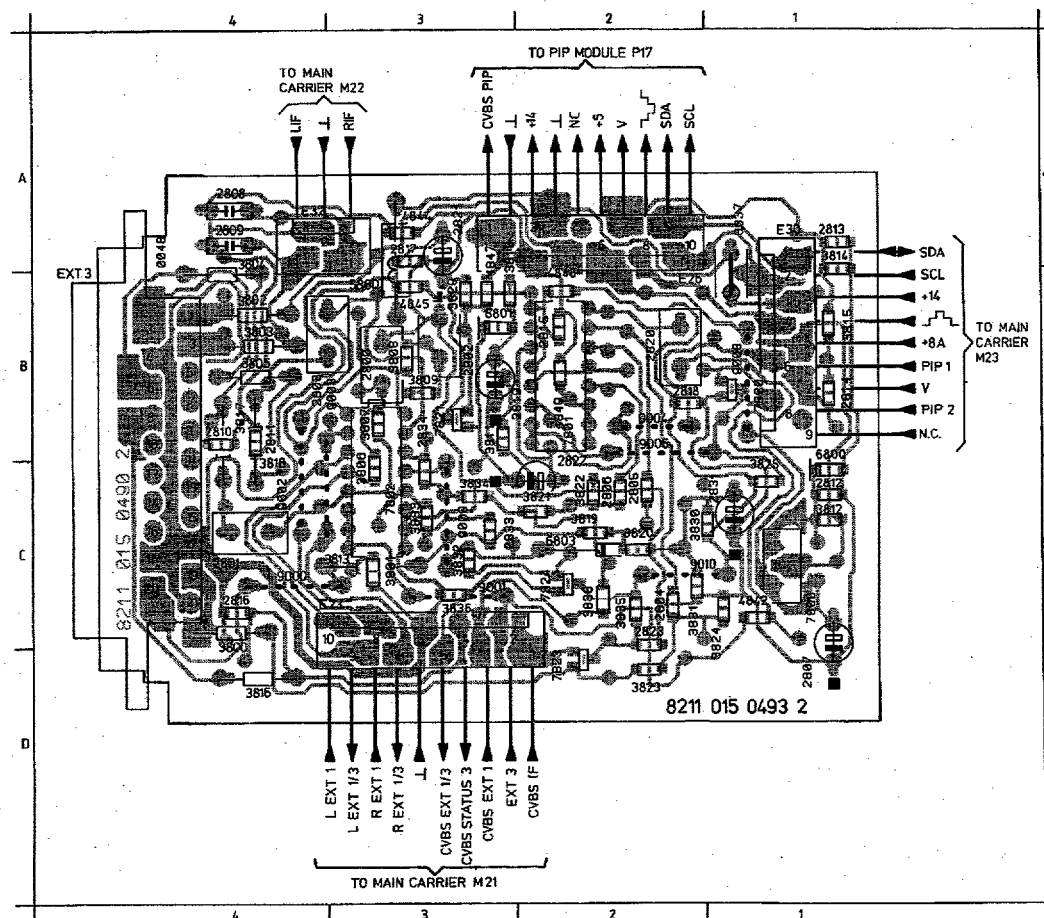
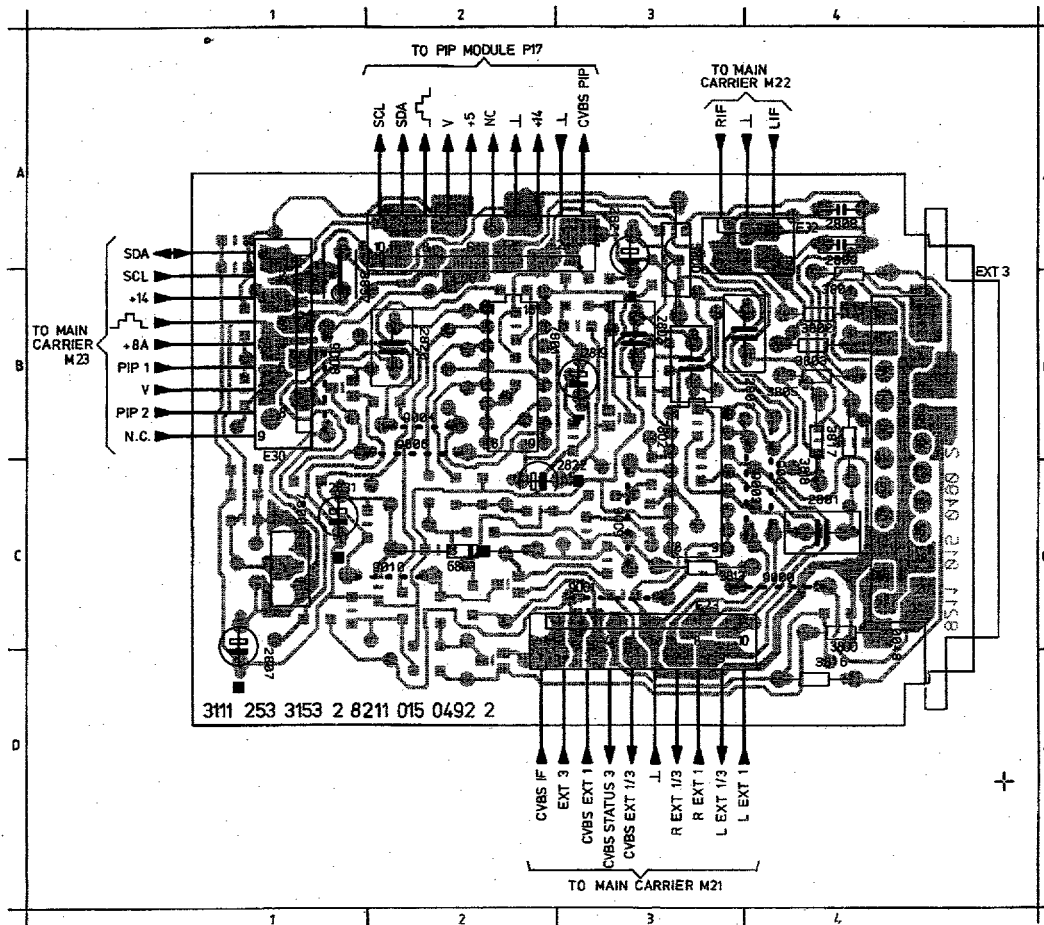


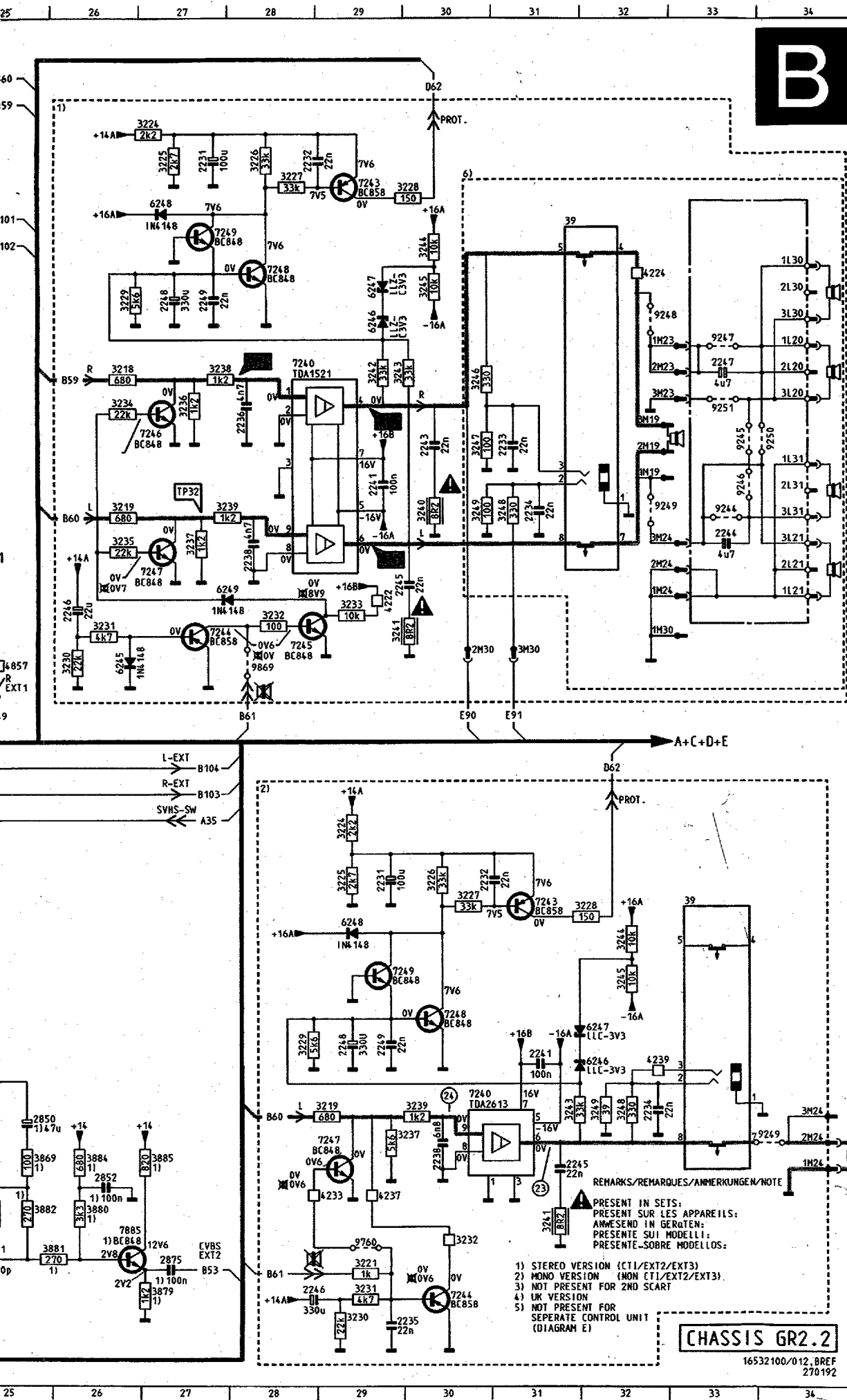
0,5 V/div AC
5 mS/div



16
1 V/div AC
10 μ S/div

Euro module (ECO) Euro-AV-Platte (ECO) Module Prise Péri-télévision (ECO)





1000	C 1	3258	I21
1240	I 3	3259	I21
1242	H 3	3260	I21
2001	B 1	3261	D24
2002	F 2	3262	D24
2003	G 3	3263	K20
2004	D 4	3264	L20
2008	G 4	3265	H22
2010	G 4	3266	H25
2230	F 1	3267	I23
2231	J29	3268	I23
2231	B27	3268	C20
2232	J30	3850	E21
2232	B28	3851	G22
2233	E31	3852	G22
2234	M32	3853	G23
2234	F31	3854	G23
2235	O29	3855	H21
2236	E28	3856	E21
2237	J 4	3857	E21
2238	M30	3858	O21
2238	F28	3859	O21
2239	I 5	3860	G21
2240	J 4	3861	O21
2241	L31	3862	F21
2241	F29	3866	J22
2242	I 4	3867	O24
2243	E30	3868	N25
2244	F33	3869	N25
2245	M31	3870	M24
2245	G29	3871	N22
2246	O28	3872	F20
2246	G26	3874	H20
2247	O33	3879	O27
2248	L29	3880	N26
2248	C27	3881	N25
2249	L29	3882	N25
2249	C27	3884	M26
2250	O23	3885	H27
2251	O25	3887	B21
2252	I22	3888	F23
2254	G23	3889	C21
2255	G25	3890	O21
2256	H24	39	C31
2257	H23	39	J33
2262	M20	4222	G29
2263	M21	4223	J 4
2264	L21	4224	C32
2265	L21	4233	N29
2266	I23	4237	N29
2850	M25	4239	L32
2851	N25	4850	O22
2852	M26	4851	N23
2853	C21	4853	K21
2854	G21	4856	G22
2875	N27	4857	H25
3001	B 2	4858	J22
3002	H 5	4859	J24
3003	F 2	4860	L21
3010	F 4	4861	F 4
3218	O26	4867	J24
3219	M29	49	F21
3219	F26	5001	G 3
3220	H 4	5240	I 3
3221	N29	5242	H 3
3222	K 1	6245	H26
3224	I29	6246	L32
3224	B27	6246	D29
3225	J29	6247	L32
3225	B27	6247	C29
3226	J30	6248	B27
3226	B28	6248	J29
3227	J30	6249	G27
3227	B28	7003	G 3
3228	J32	7240	L30
3228	B30	7240	D28
3229	I28	7243	J31
3229	C26	7243	B29
3230	O29	7244	O30
3230	H26	7244	G27
3231	O29	7245	G28
3231	G26	7246	E27
3232	N30	7247	M29
3232	G28	7247	F27
3233	G29	7248	L30
3234	E26	7248	C28
3235	F26	7249	K29
3236	E27	7249	C27
3237	M29	7311	H22
3237	F27	7312	J22
3238	O27	7850	C21
3239	M30	7885	N26
3239	F27	7886	F20
3240	F30	9244	F33
3241	N31	9245	E33
3241	G29	9246	F33
3242	O29	9247	O33
3243	O29	9248	O32
3243	M31	9249	F32
3244	C30	9249	M34
3244	K32	9250	E34
3245	C30	9251	E33
3245	K32	9760	N29
3246	O30	9869	H28
3247	E30		
3248	H32		
3248	F31		
3249	H32		
3249	F30		
3250	G24		
3251	G23		
3253	F24		
3254	F24		
3255	L21		
3256	L21		
3257	I20		

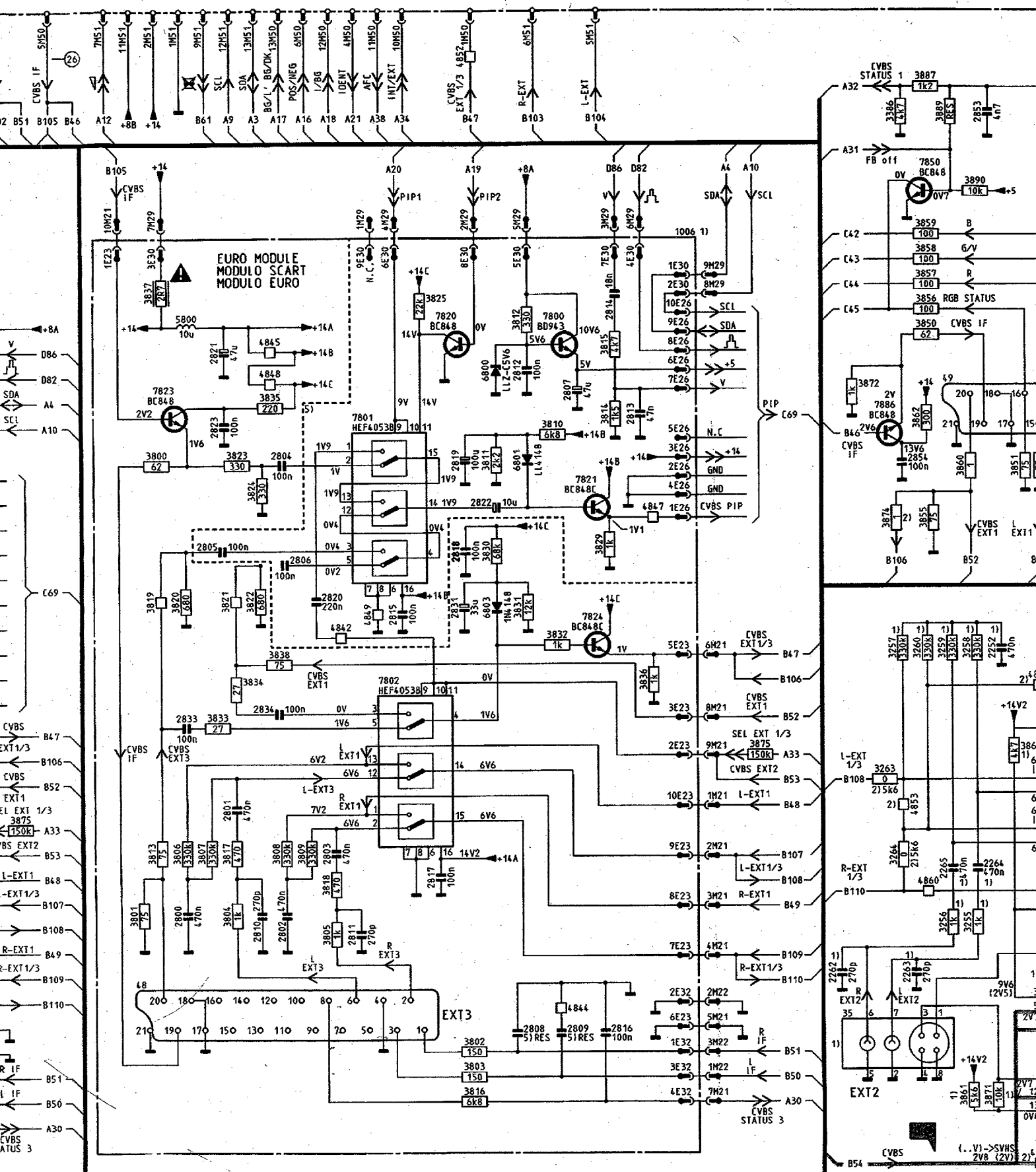


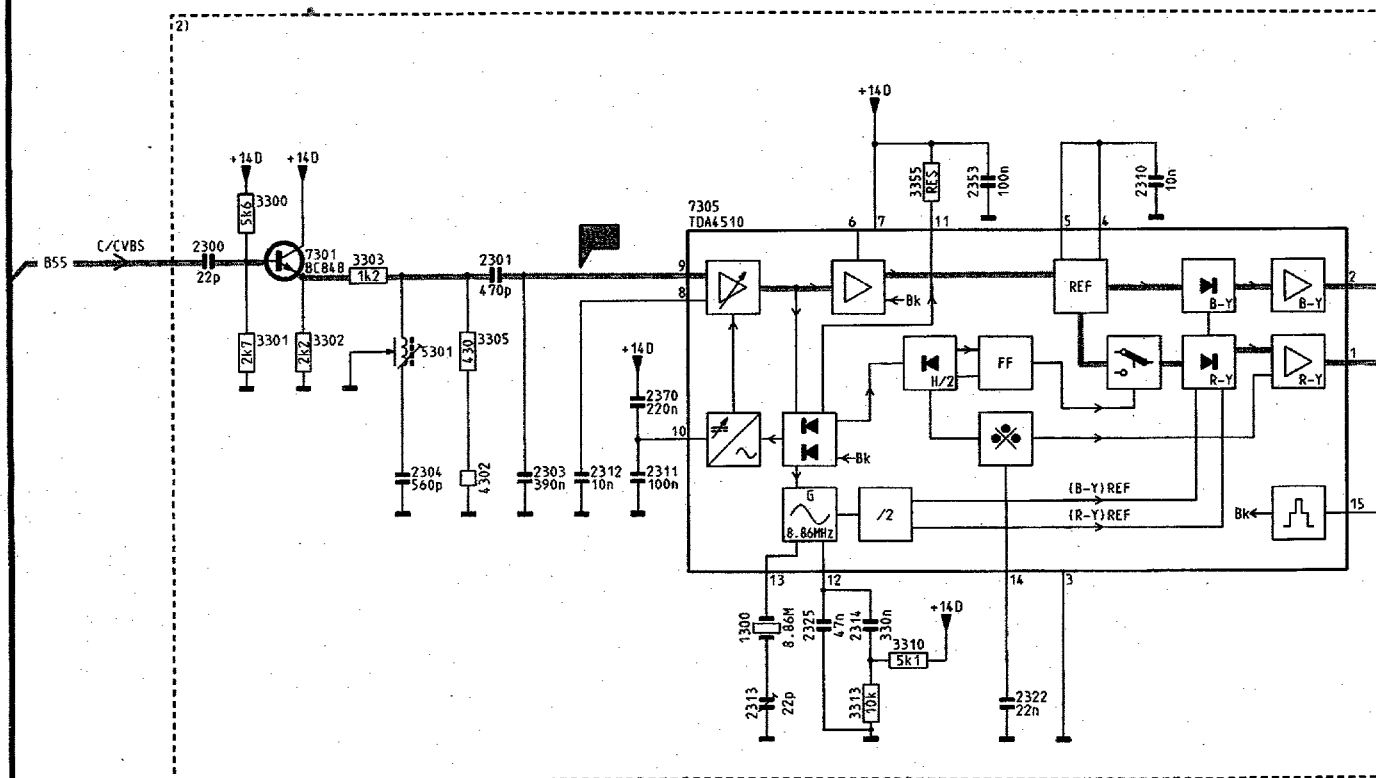
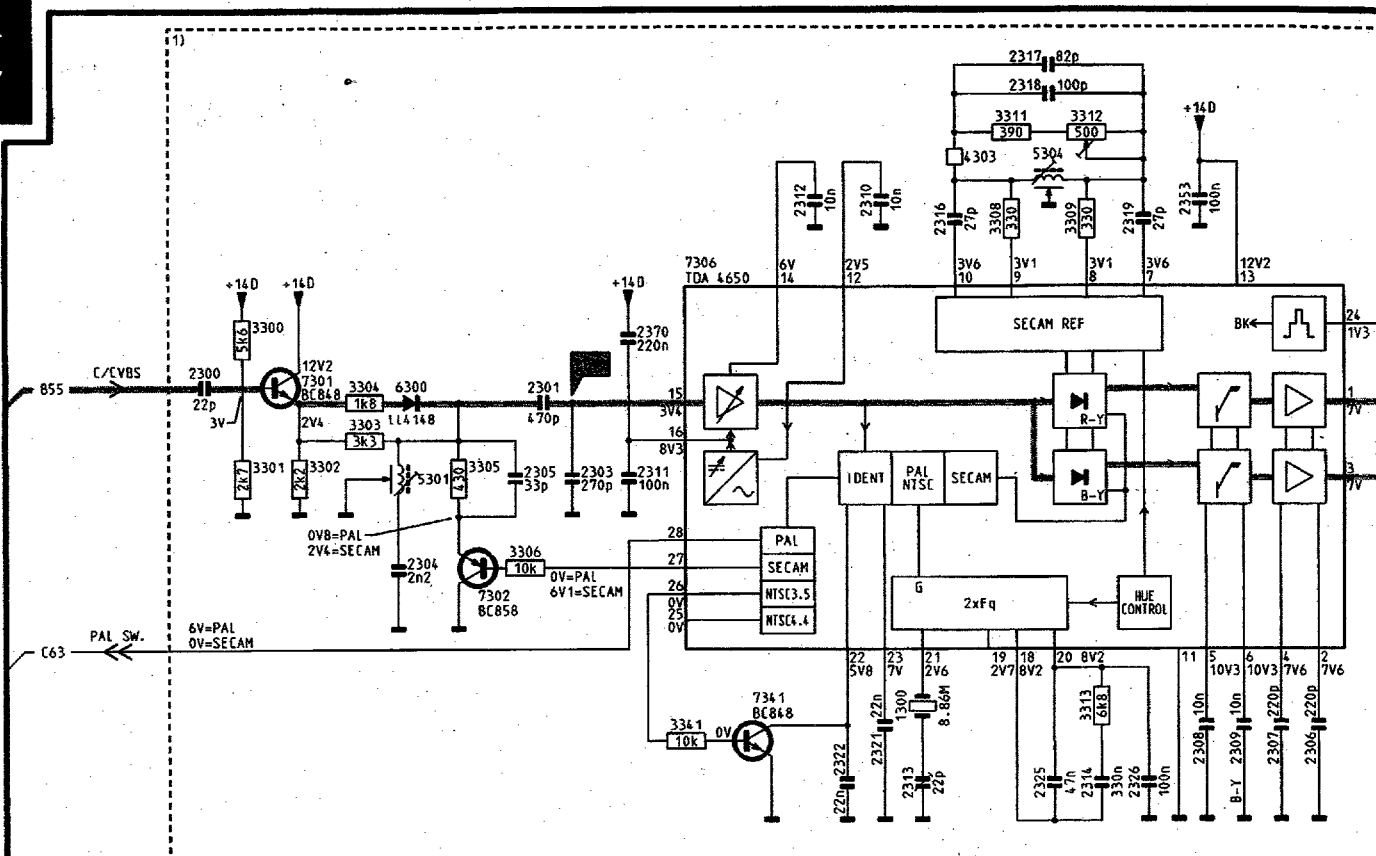
IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON MODULO IF/AUDIO MODULO SONIDO FI

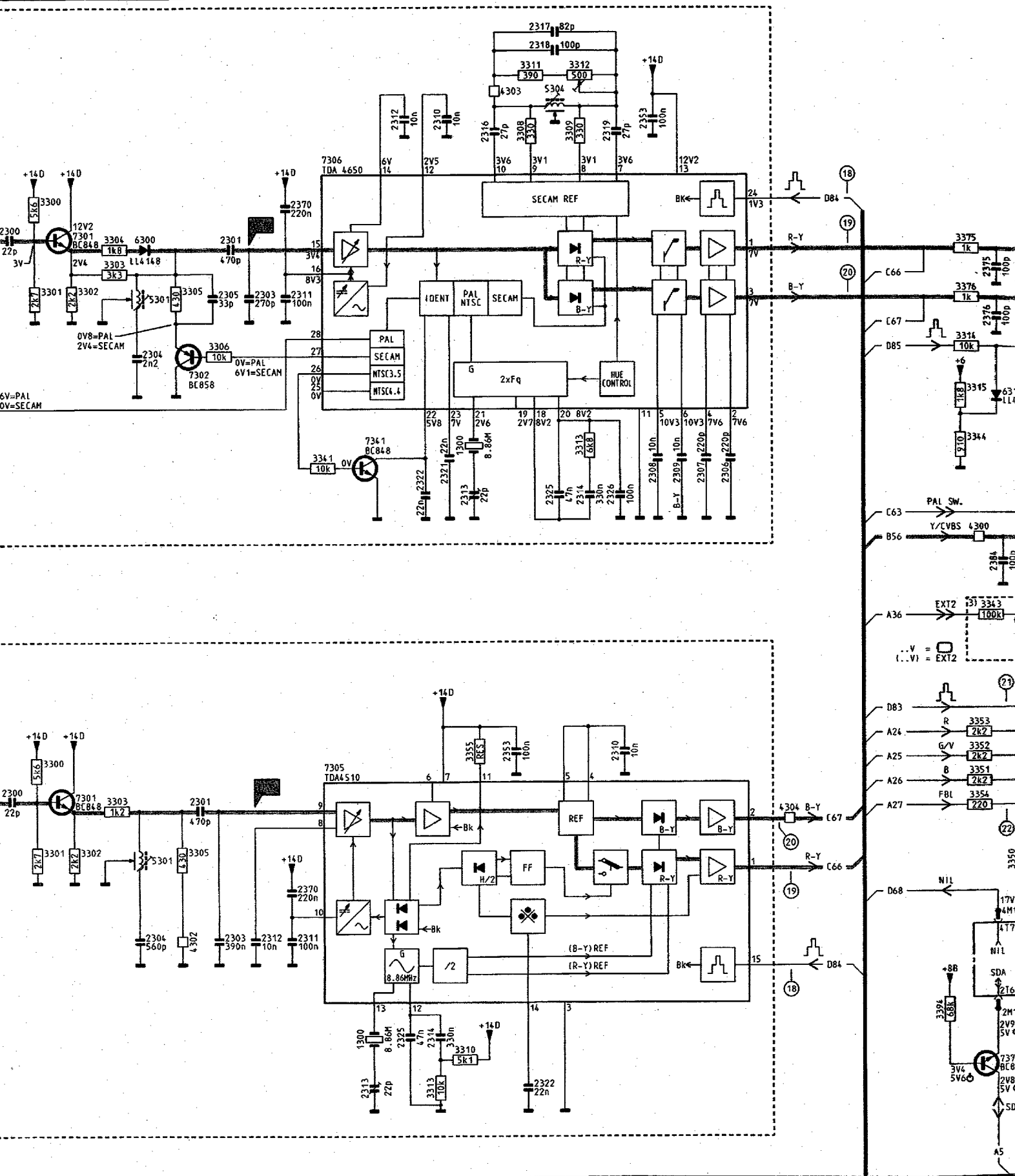
G : MONO

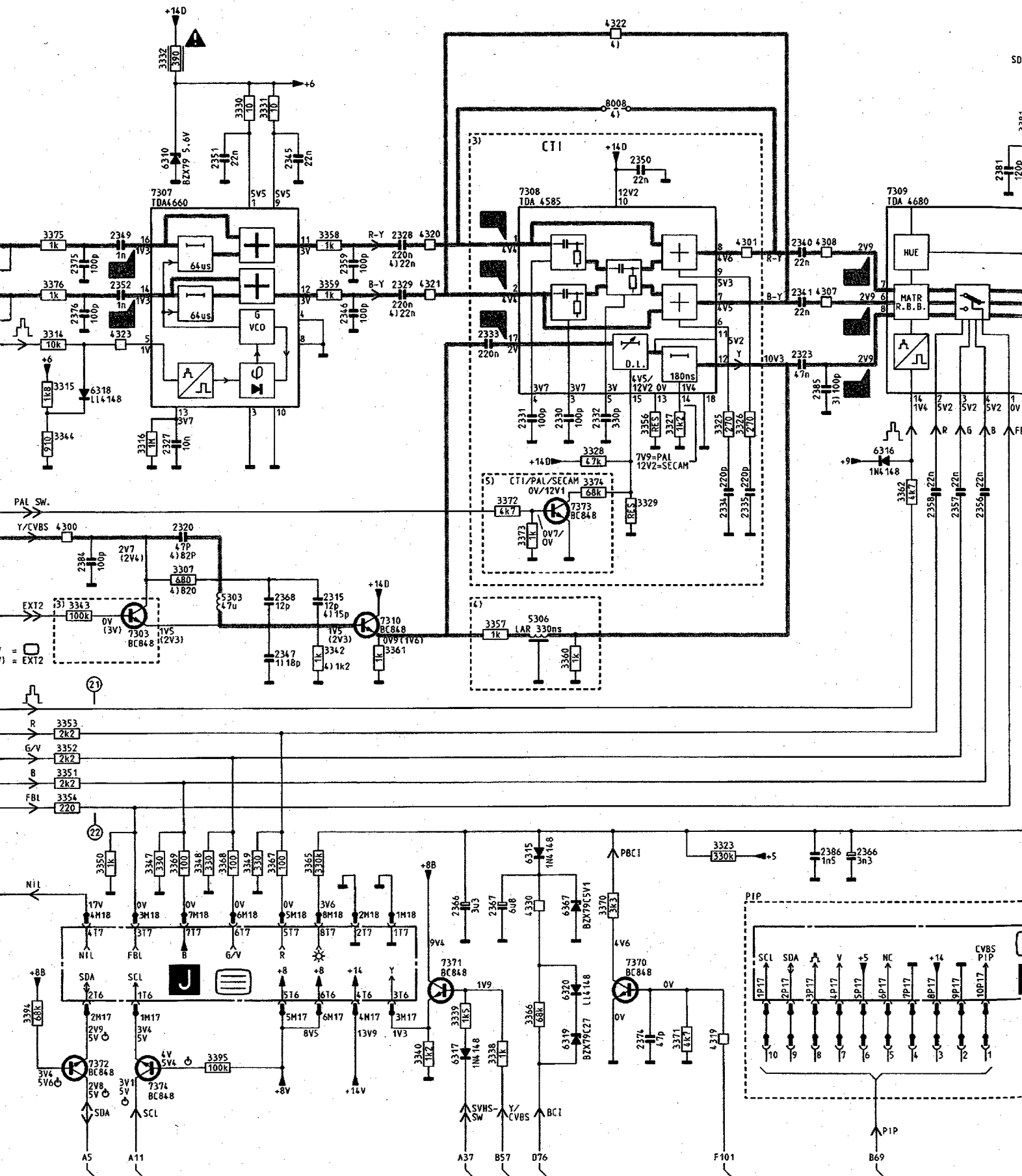
H : STEREO/ESTEREO

I : NICAM







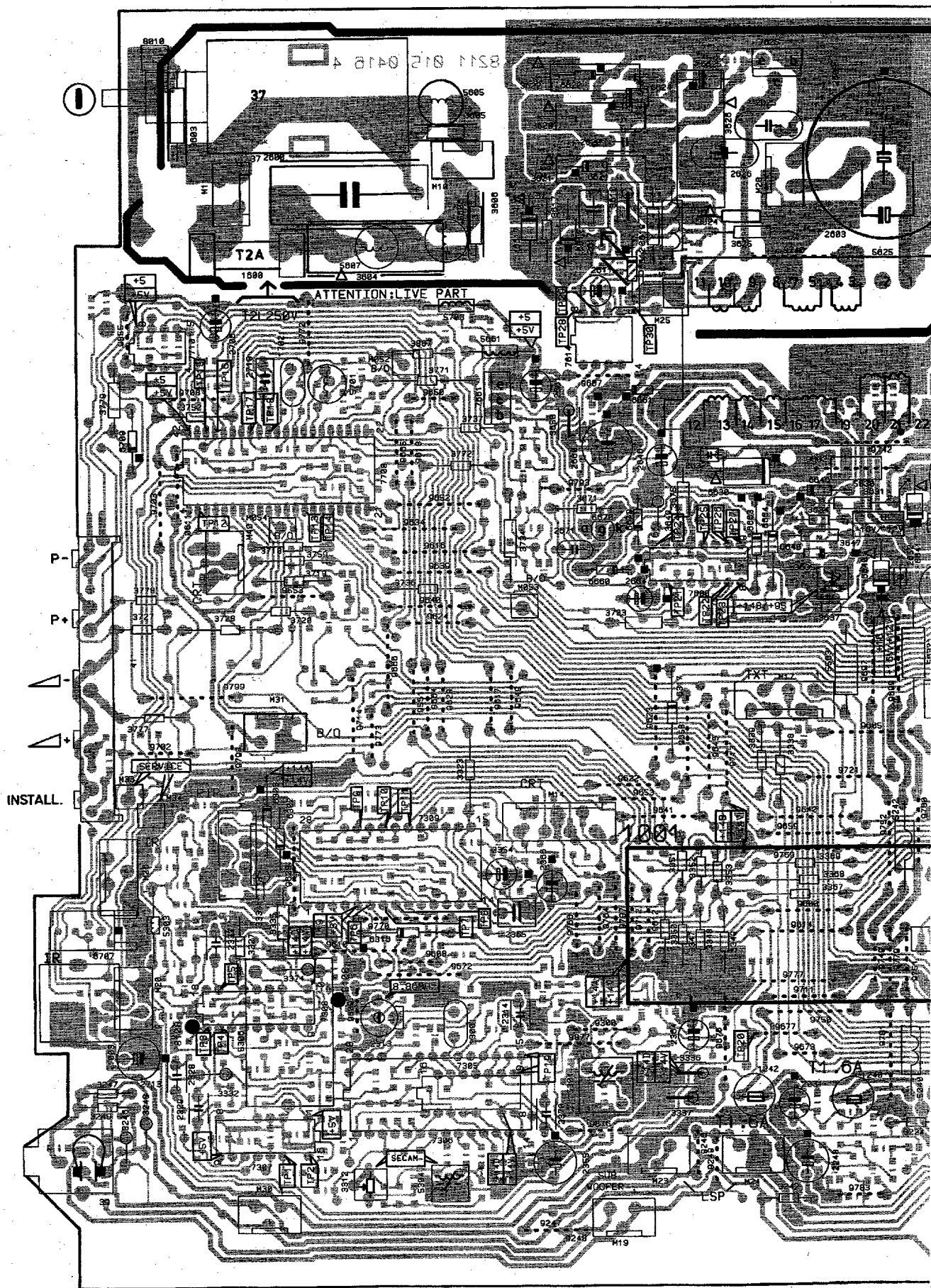


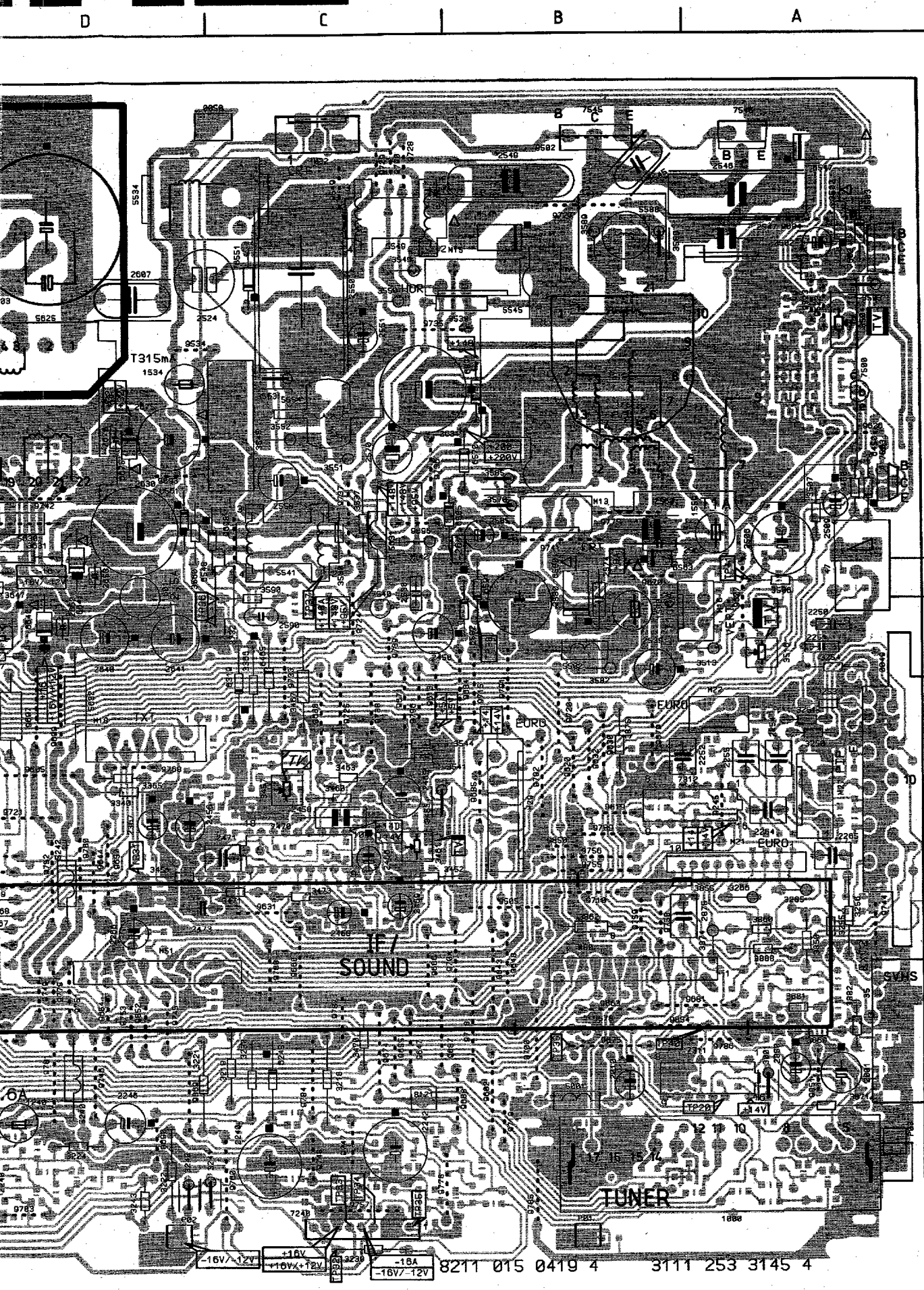


A	1300	F 8	3318	F30
	1300	M 7	3323	K23
	2300	C 3	3325	F23
	2300	J 3	3326	F23
	2301	D 6	3327	F22
B	2301	J 5	3328	F21
	2303	D 6	3329	G21
	2303	L 5	3330	B17
	2304	E 4	3331	B17
	2304	L 4	3332	A16
C	2305	D 5	3334	B32
	2306	F12	3335	B33
	2307	F11	3338	M20
	2308	F11	3339	M19
	2309	F11	3340	M19
D	2310	B 8	3341	F 7
	2310	J10	3342	H18
	2311	D 6	3343	H15
	2311	L 6	3344	F14
	2312	B 8	3347	K16
E	2312	L 6	3348	K16
	2313	G 8	3349	K17
	2313	N 7	3350	K15
	2314	G10	3351	J15
	2314	M 8	3352	J15
F	2315	H18	3353	I15
	2316	B 9	3354	J18
	2317	A 9	3355	J 5
	2318	A 9	3356	F22
	2319	B10	3357	H20
G	2320	G16	3358	D18
	2321	F 8	3359	D18
	2322	N 9	3360	I21
	2322	G 8	3361	H18
	2323	E23	3362	G25
H	2325	G 9	3365	K18
	2325	M 8	3366	M20
	2326	G10	3367	K17
	2327	F16	3368	K17
	2328	D19	3369	K16
I	2329	D19	3370	L21
	2330	F21	3371	M22
	2331	F20	3372	G20
	2332	F21	3373	G20
	2333	E20	3374	G21
J	2334	G23	3375	O14
	2335	G23	3376	O14
	2336	G27	3380	B26
	2337	G27	3381	B26
	2338	G27	3394	M14
K	2339	C32	3395	M16
	2340	D23	3390	G15
	2341	D23	3391	D23
	2342	C29	3393	B 9
	2343	C31	3394	J12
L	2344	C31	3397	O24
	2345	C17	3398	O24
	2346	D18	3319	M22
	2347	I17	3320	D19
	2349	D15	3321	D19
M	2350	C22	3322	A21
	2351	C16	3323	E15
	2352	D15	3324	G28
	2353	B11	3325	F28
	2353	J 9	3330	L20
N	2354	G29	3301	D 5
	2355	G26	3301	K 5
	2357	G25	3303	H16
	2358	G25	5304	B 9
	2359	D18	3306	H20
O	2360	C31	3300	D 4
	2361	C31	3302	C32
	2362	C29	3303	B32
	2363	G29	3310	C16
	2365	G29	3315	K20
	2366	I19	3316	F24
	2366	K24	3317	M19
	2367	L20	3318	E15
	2368	H17	3319	M21
	2370	C 6	3320	M21
	2370	K 6	3367	L 4
	2371	E32	7301	D 21
	2372	E33	7301	J 4
	2373	E32	7302	E 5
	2374	M22	7303	H15
	2375	D15	7305	J 7
	2376	D15	7306	C 7
	2380	C27	7307	C16
	2381	C26	7308	C20
	2384	G15	7309	C24
	2385	E24	7310	F 8
	2386	K24	7341	F 7
	3300	C 3	7370	L21
	3300	J 3	7371	L19
	3301	D 3	7372	N15
	3301	K 3	7373	G21
	3302	D 4	7374	N16
	3302	K 4	8008	B21
	3303	D 4		
	3303	J 4		
	3304	D 4		
	3305	D 5		
	3305	K 5		
	3306	E 5		
	3307	H16		
	3308	B 9		
	3309	B10		
	3310	M 8		
	3311	B 9		
	3312	B 9		
	3313	F18		
	3314	E14		
	3315	E14		
	3316	F16		
	3317	F29		

CHASSIS GR2.2

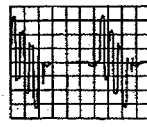
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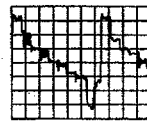


M10 F1
M11 G1
M12 G4
M13 R2
M14 E4
M15 B1
M16 A3
M17 D3
M18 C3
M19 E5
M20 G4
M21 A4
M22 A3
M23 E5
M24 E5
M25 E2
M26 G4
M27 A4
M28 D1
M29 B4
M30 G5
M31 F3
M32 C1
M33 G4
M34 G4
M40 G3
M50 B4
M51 D4
M52 F2
M53 E3
M54 F3
P01 B5
P02 C5
P03 A5
0035 A5
0037 G1
0039 G5
0041 G3
0047 A3
0049 A4
1000 A5
1003 G5
1240 D5
1242 E5
1300 F5
1534 C2
1559 A2
1580 B3
1600 G2
1601 D3
1702 F2
2001 A5
2010 B5
2231 D5
2240 C5
2242 C5
2246 D5
2248 D5
2250 A3
2251 A3
2252 A3
2254 A3
2255 A3
2264 A4
2285 A4
2286 D4
2313 F5
2314 E5
2328 G5
2329 G5
2333 G4
2354 F4
2355 E5
2364 E5
2365 F4
2366 E4
2367 D4
2370 E5
2450 B3
2456 C4
2458 C4
2465 C4
2466 C4
2468 C4
2469 C4
2471 C4
2473 C4
2502 A1
2506 A3
2509 A2
2524 C1
2538 B3
2539 A3
2545 A1
2546 A1
2547 A1
2549 B1
2550 C1
2551 C2
2559 C2
2560 B2
2563 A3
2570 C2
2574 B3
2580 B3
2585 B2
2590 C3
2600 F1
2603 D1
2605 D1
2607 D1
2611 E2
2617 E1
2620 E1
2625 D1
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2660 E2

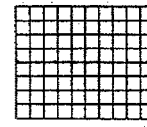
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M13 B2	2675 D2	3752 G2	9610 F4	9778 B5
M14 E4	2676 D2	3759 F3	9611 G2	9779 D4
M15 B1	2706 G2	3771 F2	9612 E4	9780 D4
M16 A3	2713 G5	3772 F2	9613 B3	9781 D5
M17 D3	2719 F2	3777 G3	9614 D4	9783 D5
M18 C3	2850 A5	3778 G3	9616 F3	9784 C5
M19 E5	2875 A4	3779 G2	9617 F3	9785 B5
M20 G4	3001 A5	3850 A4	9618 F2	9786 A5
M21 A4	3218 C5	3855 A4	9619 B4	9787 C4
M22 A3	3219 C5	3860 A4	9620 B3	9788 C4
M23 E5	3221 C5	3862 B4	9622 E4	9789 B4
M24 E5	3222 D5	3869 A5	9623 E3	9790 C1
M25 E2	3224 D5	3871 A5	9624 F3	9791 B3
M26 G4	3230 C5	3874 A4	9626 A2	9792 B3
M27 A4	3239 C5	3875 B3	9627 A3	9793 E2
M28 D1	3240 C5	3881 A4	9628 F4	9796 B3
M29 B4	3241 C5	3882 A5	9629 F3	9797 E4
M30 G5	3242 D5	3887 F2	9630 B3	9798 G4
M31 F3	3243 D5	3888 A4	9631 C4	9799 G3
M32 C1	3246 G5	5001 B5	9632 B3	9850 B4
M33 G4	3247 G5	5240 D5	9634 F3	9851 A5
M34 G4	3248 G5	5242 D4	9638 C3	9852 D5
M40 G3	3249 G5	5301 E5	9639 F3	9853 F3
M50 B4	3250 A3	5303 G4	9640 F3	9854 A5
M51 D4	3251 A3	5304 F5	9641 E4	9855 G2
M52 F2	3253 A3	5306 F4	9642 D4	9859 C5
M53 E3	3254 A3	5534 D1	9643 B4	9876 E5
M54 F3	3255 A4	5541 C2	9644 D4	9877 E5
P01 B5	3256 A4	5545 A2	9645 E4	
P02 C5	3265 A4	5549 B1	9647 C5	
P03 A5	3266 A4	5554 C2	9648 B4	
0035 A5	3312 F5	5563 D3	9649 F3	
0037 G1	3323 F4	5582 B3	9850 F2	
0039 G5	3327 G4	5588 B1	9852 F3	
0041 G3	3332 G5	5605 F1	9853 E4	
0047 A3	3334 G4	5606 F1	9854 D4	
0049 A4	3335 F4	5607 F2	9855 C5	
1000 A5	3336 E5	5619 E1	9857 D4	
1003 G5	3337 E5	5625 D2	9858 E3	
1240 D5	3338 D4	5630 D2	9859 D4	
1242 E5	3339 E4	5631 C2	9863 B4	
1300 F5	3340 D4	5632 D3	9864 F3	
1534 C2	3347 E4	5661 F2	9865 F2	
1559 A2	3348 E4	5701 F2	9866 F3	
1580 B3	3349 E4	5703 F2	9867 E2	
1600 G2	3350 E4	6245 C5	9868 C4	
1601 D3	3351 E4	6302 F4	9870 A3	
1702 F2	3352 E4	6303 G4	9871 C3	
2001 A5	3353 E4	6316 F4	9872 F4	
2010 B5	3365 D3	6317 E3	9873 D5	
2231 D5	3366 C3	6319 C3	9874 C5	
2240 C5	3367 D4	6450 A2	9875 B5	
2242 C5	3368 D4	6465 C3	9876 E5	
2246 D5	3369 D4	6503 A1	9877 D5	
2248 D5	3374 F4	6546 B1	9878 B5	
2250 A3	3450 A2	6547 A1	9879 A3	
2251 A3	3451 C4	6548 C2	9881 A4	
2252 A3	3452 B4	6551 C1	9882 B5	
2254 A3	3457 C4	6561 C2	9884 B3	
2255 A3	3460 C4	6563 A3	9885 B4	
2264 A4	3461 C4	6570 B2	9886 B4	
2265 A4	3463 C3	6571 B2	9887 B5	
2266 D4	3467 C3	6580 B3	9888 B5	
2313 F5	3470 C5	6585 B2	9890 D5	
2314 E5	3471 C4	6591 B3	9892 D2	
2328 G5	3473 C4	6592 B3	9893 C2	
2329 G5	3483 B4	6611 E1	9894 A1	
2333 G4	3502 A1	6612 E2	9895 C3	
2354 F4	3503 A1	6617 E1	9896 B2	
2355 E5	3504 A2	6621 E1	9897 D3	
2364 E5	3506 A3	6622 E1	9898 D3	
2365 F4	3507 A2	6624 E1	9700 B5	
2366 E4	3513 A3	6625 E1	9702 G4	
2367 D4	3516 A3	6630 E2	9703 G3	
2370 E5	3537 C2	6640 D3	9704 B4	
2450 B3	3538 C2	6641 D3	9708 G2	
2456 C4	3539 B2	6646 D2	9710 B4	
2458 C4	3541 B3	6648 D3	9711 D4	
2465 C4	3542 B2	6649 E3	9712 E4	
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2468 C4	3545 C2	6661 E2	9714 F3	
2469 C4	3549 C1	6663 E3	9715 B3	
2471 C4	3550 C1	6664 D3	9718 B5	
2473 C4	3551 C2	6670 E3	9719 B5	
2602 A1	3552 C2	6675 D2	9720 B3	
2506 A3	3553 C2	6707 G4	9721 D4	
2509 A2	3560 C2	6709 G2	9724 C3	
2524 C1	3570 B2	7240 C5	9725 C3	
2538 B3	3582 B3	7305 F5	9727 B1	
2539 A3	3585 B2	7306 F5	9728 C1	
2545 A1	3588 A1	7307 F5	9729 C1	
2546 A1	3589 B1	7308 G5	9733 C3	
2547 A1	3590 C3	7309 F4	9735 B2	
2549 B1	3603 G1	7311 A5	9736 B2	
2550 C1	3604 F2	7312 A4	9737 C2	
2551 C2	3605 F1	7470 C4	9738 C3	
2559 C2	3606 F1	7500 A2	9739 C3	
2560 B2	3610 E1	7502 A1	9740 D2	
2563 A3	3617 E1	7503 A2	9741 B2	
2570 C2	3619 E1	7540 C3	9742 D2	
2574 B3	3620 E1	7545 B1	9744 A4	
2580 B3	3621 E1	7546 A1	9745 D4	
2585 B2	3622 E1	7600 E3	9748 D5	
2590 C3	3624 E1	7614 E2	9747 C5	
2600 F1	3625 E1	7625 D1	9748 C5	
2603 D1	3626 E1	7661 F2	9749 D4	
2605 D1	3631 D3	7708 G3	9750 D5	
2607 D1	3634 D3	7710 G2	9751 D4	
2611 E2	3635 D3	9245 A4	9752 D4	
2617 E1	3637 D3	9246 E5	9753 D5	
2620 E1	3647 D3	9247 E5	9755 B4	
2625 D1	3649 E3	9248 E5	9756 B4	
2626 E1	3658 E2	9249 E5	9757 C5	
2630 D2	3671 E3	9300 E5	9758 A4	
2631 C2	3675 E3	9502 B1	9759 B4	
2632 E2	3718 F3	9505 B4	9760 C5	
2640 D3	3719 F3	9522 A2	9764 E4	
2641 D3	3720 F3	9523 A1	9768 E4	
2646 E2	3727 G3	9534 C2	9768 D3	
2652 D3	3728 G3	9549 C1	9769 D4	
2653 D3	3732 C3	9551 F3	9770 F4	
2660 E2	3733 E3	9600 D4	9772 F2	



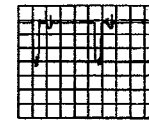
TP 1
0,2 V/div AC
20 μ S/div



TP 8
50 mV/div AC
10 μ S/div



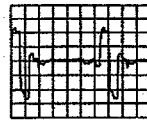
TP 14 ϕ
0,2 V/div DC
0,5 mS/div



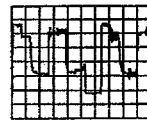
TP 21
0,5 V/div DC
5 μ S/div



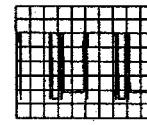
TP 26 ϕ
0,1 V/div AC
5 mS/div



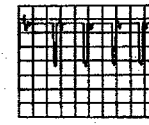
TP 2
0,2 V/div AC
20 μ S/div



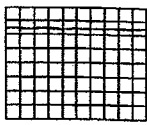
TP 9
0,5 V/div AC
10 μ S/div



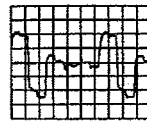
TP 15
1 V/div AC
0,2 mS/div



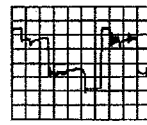
TP 21 ϕ
0,5 V/div DC
10 μ S/div



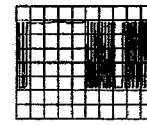
TP 27
1 V/div DC



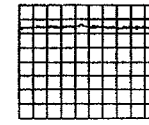
TP 3
0,2 V/div AC
10 μ S/div



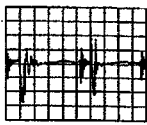
TP 10
0,5 V/div AC
10 μ S/div



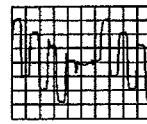
TP 16
1 V/div DC
0,1 mS/div



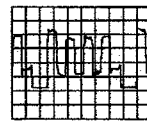
TP 22
1 V/div DC



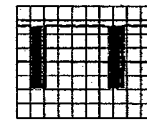
TP 27 ϕ
50 mV/div AC
10 mS/div



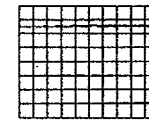
TP 4
0,2 V/div AC
10 μ S/div



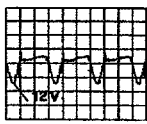
TP 11
0,5 V/div AC
10 μ S/div



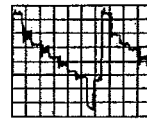
TP 17
1 V/div DC
20 mS/div



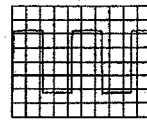
TP 23
1 V/div DC



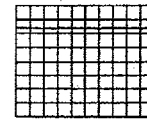
TP 28
0,5 V/div AC
5 μ S/div



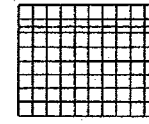
TP 5
0,1 V/div AC
10 μ S/div



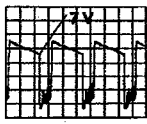
TP 12
1 V/div AC
10 μ S/div



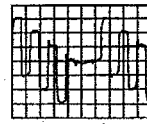
TP 18
2 V/div DC
20 mS/div



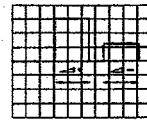
TP 24
5V/div DC



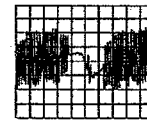
TP 28 ϕ
1 /div AC
10 mS/div



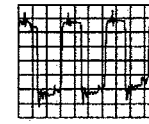
TP 6
0,2 V/div AC
10 μ S/div



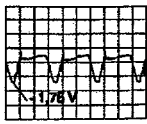
TP 13
1 V/div DC
1 S/div



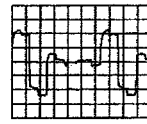
TP 19
50 mV/div AC
10 μ S/div



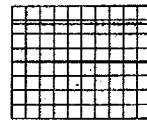
TP 25
0,2 V/div AC
5 μ S/div



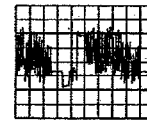
TP 29
0,5 V/div AC
5 μ S/div



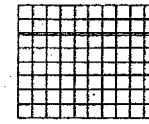
TP 7
0,2 V/div AC
10 μ S/div



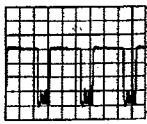
TP 14
1 V/div DC
0,5 mS/div



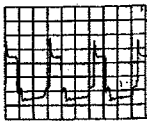
TP 20
0,5 V/div AC
10 μ S/div



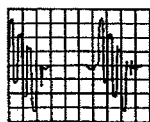
TP 26
1 V/div DC



TP 29 ϕ
1 V/div AC
10 mS/div



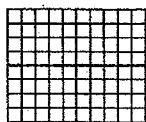
TP 30
2 V/div DC
5 μ S/div



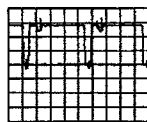
TP 1
0,2 V/div AC
20 μ S/div



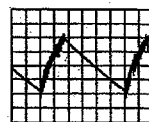
TP 8
50 mV/div AC
10 μ S/div



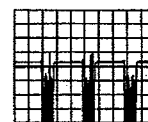
TP 14 ϕ
0,2 V/div DC
0,5 mS/div



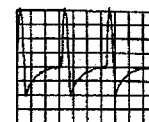
TP 21
0,5 V/div DC
5 μ S/div



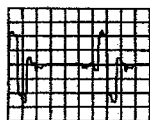
TP 26 ϕ
0,1 V/div AC
5 mS/div



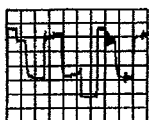
TP 30 ϕ
1 V/div DC
10 mS/div



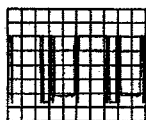
TP 38
20 mV/div AC
20 μ S/div



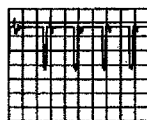
TP 2
0,2 V/div AC
20 μ S/div



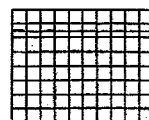
TP 9
0,5 V/div AC
10 μ S/div



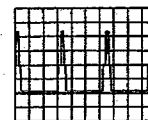
TP 15
1 V/div AC
0,2 mS/div



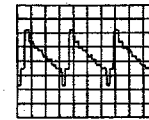
TP 21 ϕ
0,5 V/div DC
10 μ S/div



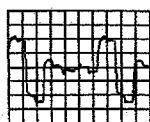
TP 27
1 V/div DC



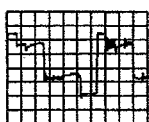
TP 31
2 V/div DC
20 μ S/div



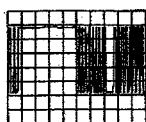
TP 39
0,2 V/div AC
20 μ S/div



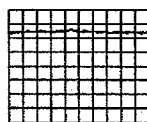
TP 3
0,2 V/div AC
10 μ S/div



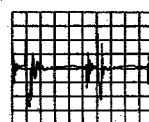
TP 10
0,5 V/div AC
10 μ S/div



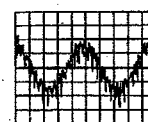
TP 16
1 V/div DC
0,1 mS/div



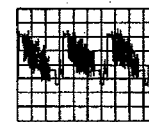
TP 22
1 V/div DC



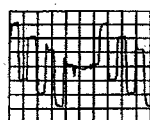
TP 27 ϕ
50 mV/div AC
10 mS/div



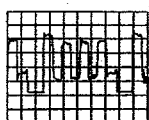
TP 32
50 mV/div DC
0,2 mS/div



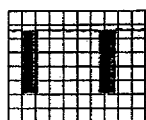
TP 40
0,5 V/div AC
20 μ S/div



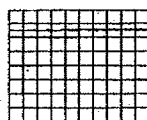
TP 4
0,2 V/div AC
10 μ S/div



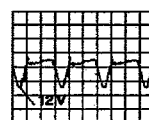
TP 11
0,5 V/div AC
10 μ S/div



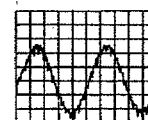
TP 17
1 V/div DC
20 mS/div



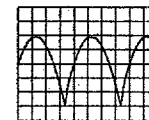
TP 23
1 V/div DC



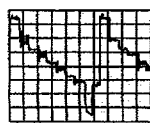
TP 28
0,5 V/div AC
5 μ S/div



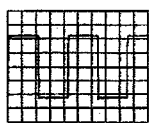
TP 33
2 V/div DC
0,2 mS/div



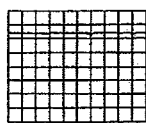
TP 41
2 V/div AC
5 mS/div



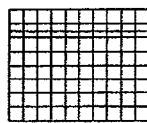
TP 5
0,1 V/div AC
10 μ S/div



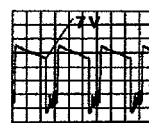
TP 12
1 V/div AC
10 μ S/div



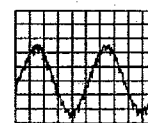
TP 18
2 V/div DC
20 mS/div



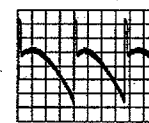
TP 24
5V/div DC



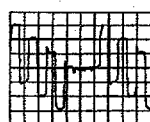
TP 28 ϕ
1 /div AC
10 mS/div



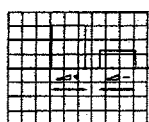
TP 34
2 V/div DC
20 μ S/div



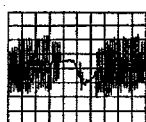
TP 41 a
5 V/div AC
5 mS/div



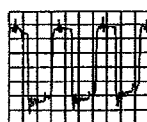
TP 6
0,2 V/div AC
10 μ S/div



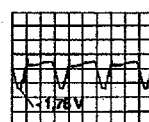
TP 13
1 V/div DC
1 S/div



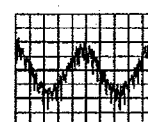
TP 19
50 mV/div AC
10 μ S/div



TP 25
0,2 V/div AC
5 μ S/div



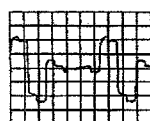
TP 29
0,5 V/div AC
5 μ S/div



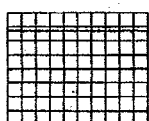
TP 35
50 mV/div DC
0,2 mS/div



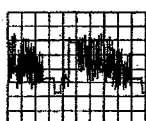
TP 41 b
5 V/div AC
5 mS/div



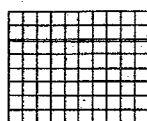
TP 7
0,2 V/div AC
10 μ S/div



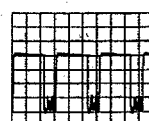
TP 14
1 V/div DC
0,5 mS/div



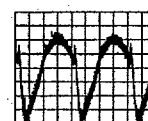
TP 20
0,5 V/div AC
10 μ S/div



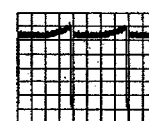
TP 26
1 V/div DC



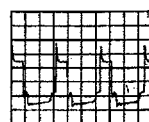
TP 29 ϕ
1 V/div AC
10 mS/div



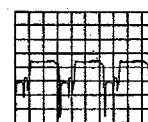
TP 36
0,2 V/div AC
5 mS/div



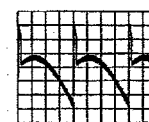
TP 41 c
0,1 V/div AC
5 mS/div



TP 30
2 V/div DC
5 μ S/div



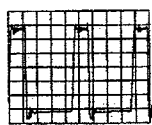
TP 37
2 V/div AC
20 μ S/div



TP 41 d
5 V/div AC
5 mS/div



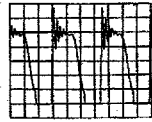
①
2 V/div AC
2 mS/div
280 V DC



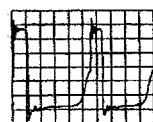
⑤ 
0,5 V/div AC
5 μ S/div



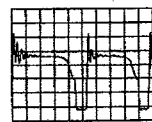
②
50 V/div AC
5 μ S/div



⑧
100 V/div AC
5 μ S/div



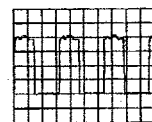
② 
50 V/div AC
5 μ S/div



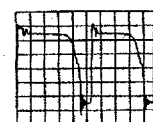
2 V/div AC
2 mS/div



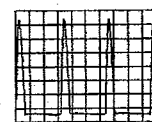
③
50 V/div AC
5 μ S/div



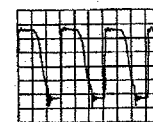
⑦
0,5 V/div AC
20 μ S/div



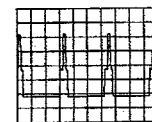
50 V/div AC
5 μ S/div



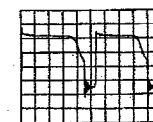
0,5 V/div AC
20 μ S/div



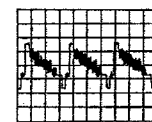
④
5 V/div AC
5 μ S/div



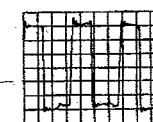
⑨
2 V/div AC
20 μ S/div



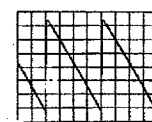
④ 
5 V/div AC
5 μ S/div



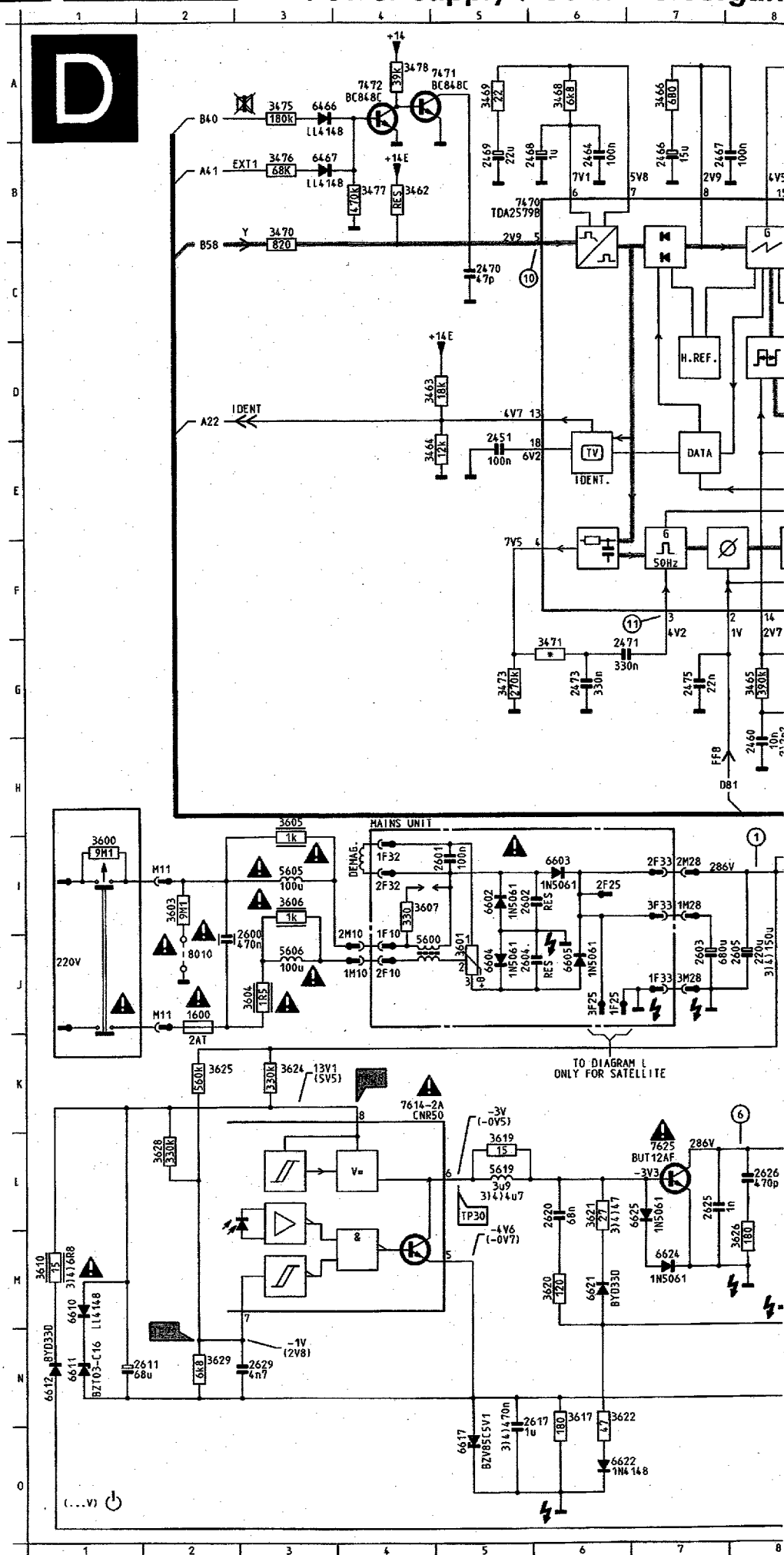
⑩
0,5 V/div AC
5 mS/div



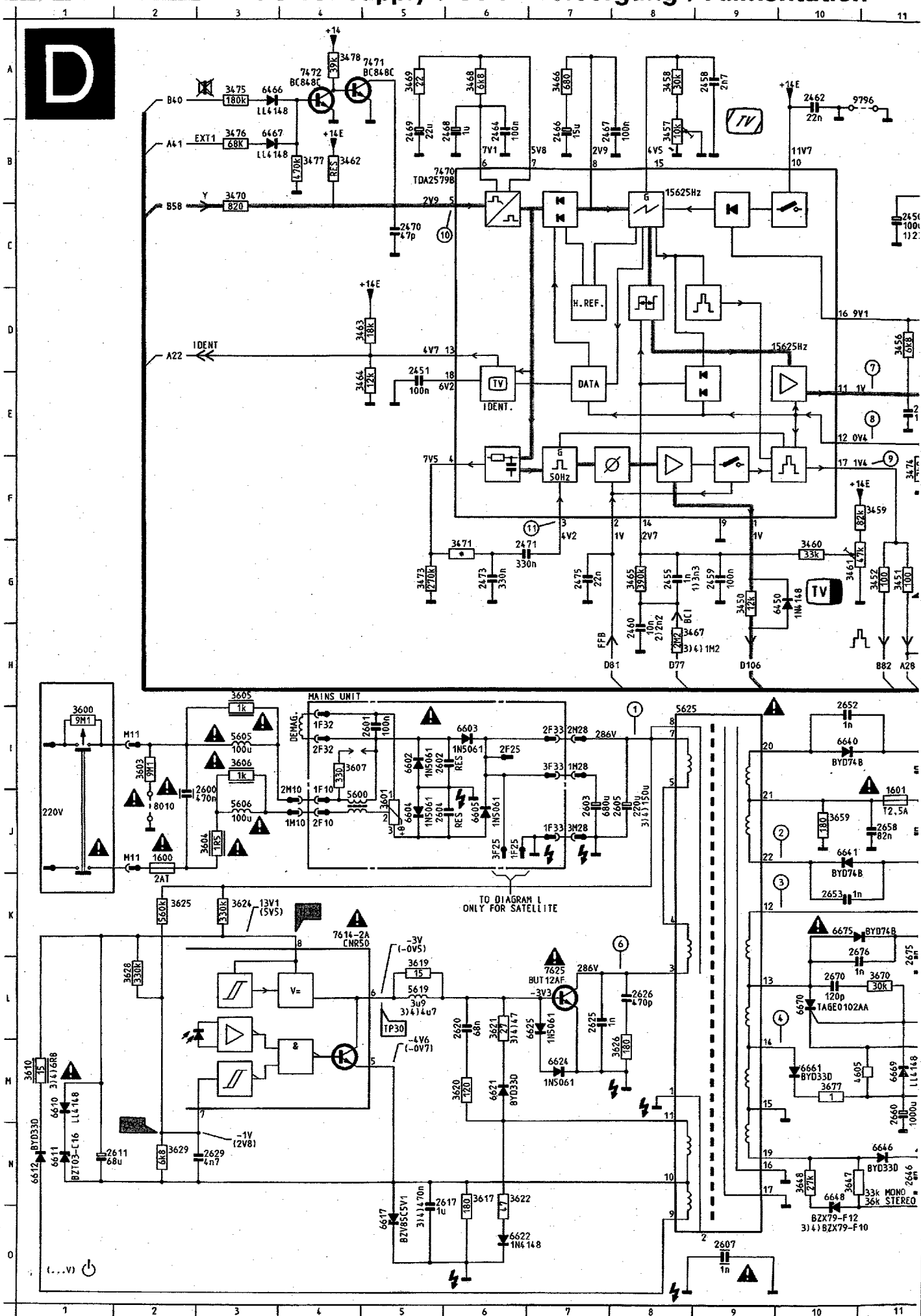
⑤
0,5 V/div AC
5 μ S/div

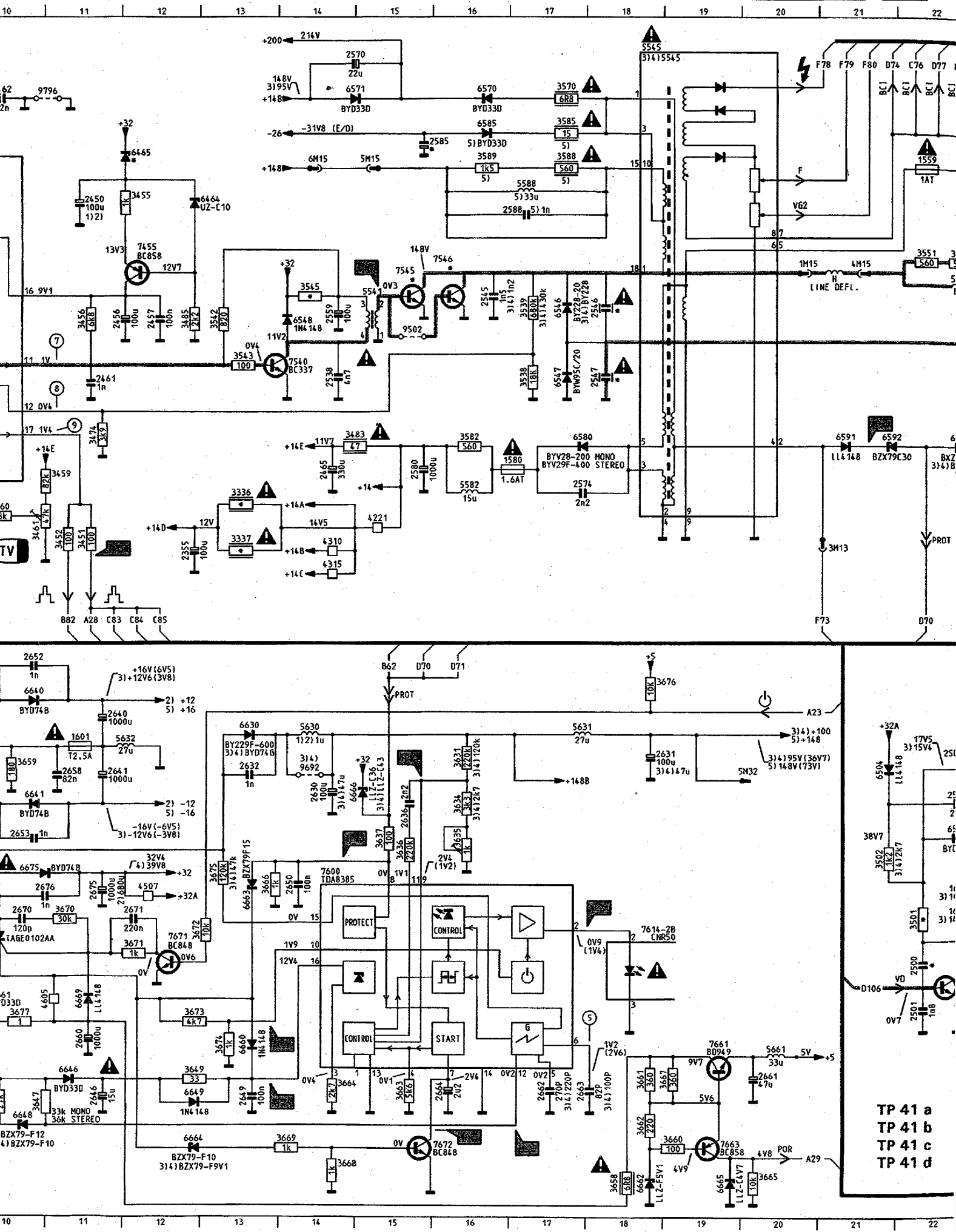


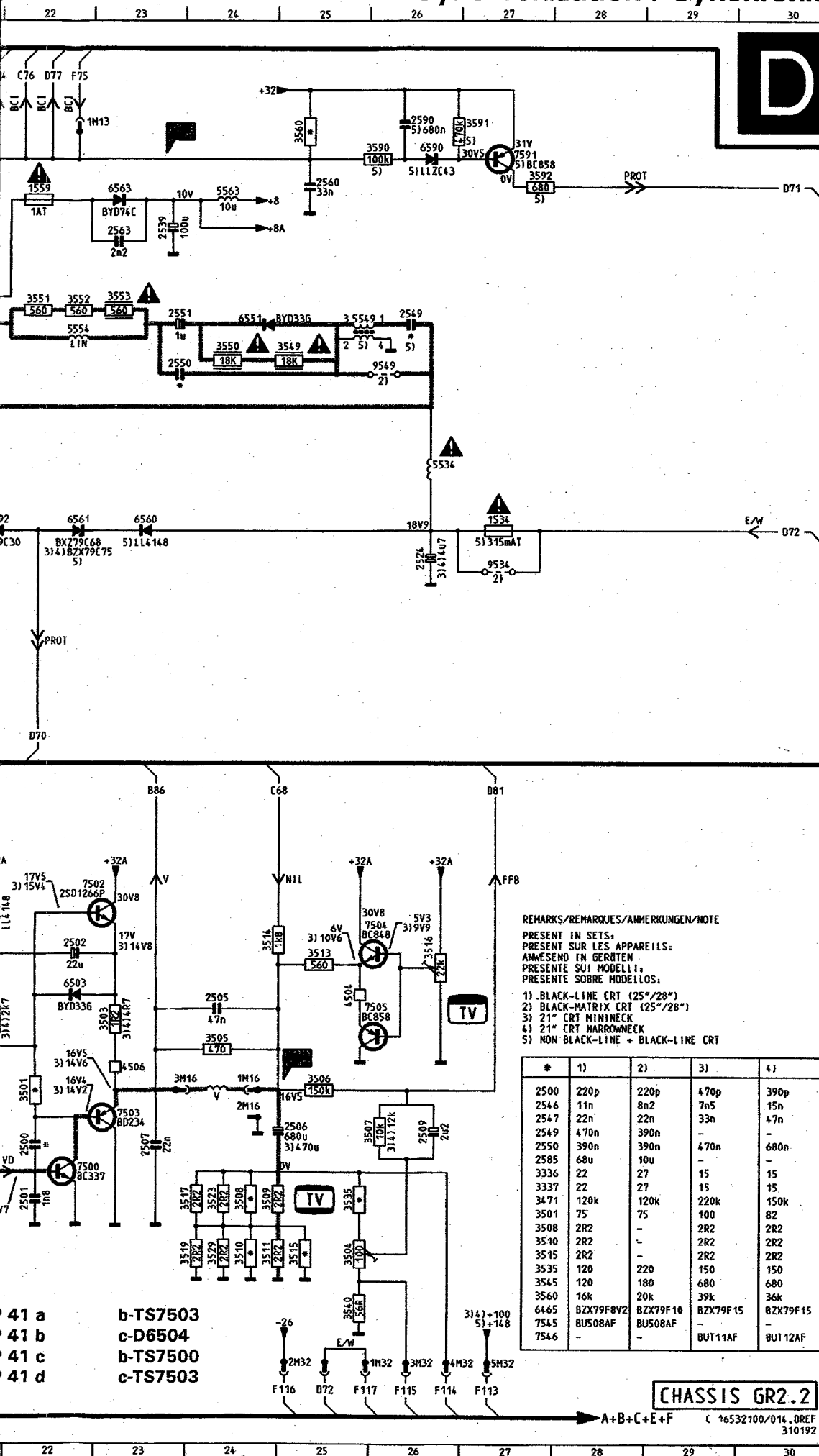
⑪
0,5 V/div AC
5 mS/div



D







REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESENDE IN GERÄTEN:
PRESENTI SUI MODELLI:
PRESENTI SOBRE MODELOS:

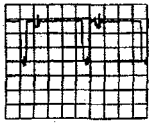
- 1) BLACK-LINE CRT (25"/28")
- 2) BLACK-MATRIX CRT (25"/28")
- 3) 21" CRT MININECK
- 4) 21" CRT NARROWNECK
- 5) NON BLACK-LINE + BLACK-LINE CRT

#	1)	2)	3)	4)
2500	220p	220p	470p	390p
2546	11n	8n2	7n5	15n
2547	22n	22n	33n	47n
2549	470n	390n	-	-
2550	390n	470n	-	680n
2585	68u	10u	-	-
3336	22	27	15	15
3337	22	27	15	15
3471	120k	120k	220k	150k
3501	75	75	100	82
3508	2R2	-	2R2	2R2
3510	2R2	-	2R2	2R2
3515	2R2	-	2R2	2R2
3535	120	220	150	150
3545	120	180	680	680
3560	16k	20k	39k	36k
6465	BZX79F8V2	BZX79F10	BZX79F15	BZX79F15
7545	BU508AF	BU508AF	-	-
7546	-	-	BUT11AF	BUT12AF

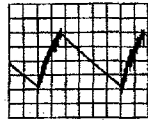
CHASSIS GR2.2

A+B+C+E+F C 16532100/014, DREF 310192

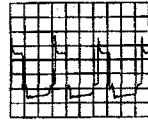
1534	F27	3552	C22	6649	N12
1559	B22	3553	C23	6660	M13
1580	F17	3560	B25	6661	M10
1600	J 2	3570	A17	6662	O18
1601	J11	3582	F16	6663	K13
2355	G12	3585	B17	6664	O12
2450	C11	3588	B17	6665	O19
2451	E 5	3589	B16	6666	J15
2455	G 8	3590	B26	6669	M11
2456	D11	3591	A27	6670	L10
2457	D12	3592	B27	6675	K10
2458	A 9	3600	I 1	7455	C12
2459	G 9	3601	J 5	7470	B 6
2460	H 8	3603	I 2	7471	A 5
2461	E11	3604	J 3	7472	A 4
2462	A10	3605	H 3	7540	E14
2464	B 6	3606	I 3	7545	D15
2465	F14	3607	I 4	7546	C16
2466	B 7	3610	M 1	7591	B27
2467	B 7	3617	M 6	7600	K14
2468	B 6	3619	L 5	7614	K 5
2469	B 5	3620	M 6	7614	L19
2470	C 5	3621	L 6	7625	L 7
2471	G 6	3622	H 6	7661	M19
2473	G 6	3624	K 3	7663	O19
2475	G 7	3625	K 2	7671	L12
2524	F26	3626	M 8	7672	O16
2538	E14	3628	L 2	8010	J 2
2539	C23	3629	N 2	9502	D15
2545	D16	3631	J16	9534	F27
2546	D18	3634	J16	9549	D26
2547	E18	3635	K16	9692	J14
2549	D26	3636	K15	9796	A11
2550	D23	3637	K15	-	-
2551	D23	3647	N10	-	-
2559	D14	3648	N10	-	-
2560	B25	3649	N12	-	-
2563	C23	3658	O18	-	-
2570	A14	3659	J10	-	-
2574	F17	3660	O19	-	-
2580	F15	3661	N18	-	-
2585	B15	3662	N18	-	-
2588	C17	3663	N15	-	-
2590	A26	3664	N14	-	-
2600	J 2	3665	O20	-	-
2601	I 5	3666	K13	-	-
2602	I 5	3667	N19	-	-
2603	J 7	3668	O14	-	-
2604	J 5	3669	O14	-	-
2605	J 8	3670	L11	-	-
2607	O 9	3671	L12	-	-
2611	N 1	3672	L12	-	-
2617	N 5	3673	M12	-	-
2620	L 6	3674	M13	-	-
2625	L 7	3675	K13	-	-
2626	L 8	3676	I18	-	-
2629	N 3	3677	M10	-	-
2630	J14	4221	G15	-	-
2631	J18	4310	G14	-	-
2632	J13	4315	G14	-	-
2636	J15	4507	K12	-	-
2640	I11	4605	M11	-	-
2641	J11	5534	E26	-	-
2646	N11	5541	D15	-	-
2649	N13	5545	A18	-	-
2650	K14	5545	A18	-	-
2652	I10	5549	D25	-	-
2653	K10	5554	D22	-	-
2658	J11	5563	B24	-	-
2660	M11	5582	F16	-	-
2661	N20	5588	B17	-	-
2662	N17	5600	J 4	-	-
2663	N17	5605	I 3	-	-
2664	N16	5606	J 3	-	-
2670	L10	5619	L 5	-	-
2671	L12	5625	I 8	-	-
2675	K11	5630	I14	-	-
2676	K11	5631	I17	-	-
3336	F13	5632	J12	-	-
3337	G13	5661	N20	-	-
3450	G 9	6450	G10	-	-
3451	G11	6464	C12	-	-
3452	G11	6465	B12	-	-
3455	C12	6466	A 3	-	-
3456	D11	6467	B 3	-	-
3457	B 8	6546	D17	-	-
3458	A 8	6547	E17	-	-
3459	F11	6548	D14	-	-
3460	G10	6551	O24	-	-
3461	G10	6560	F23	-	-
3462	B 4	6561	F22	-	-
3463	D 5	6563	B23	-	-
3464	E 5	6570	A16	-	-
3465	G 8	6571	A14	-	-
3466	A 6	6590	F37	-	-
3467	H 8	6585	B16	-	-
3468	A 6	6590	B26	-	-
3469	A 5	6591	F21	-	-
3470	B 3	6592	F21	-	-
3471	G 6	6602	I 5	-	-
3473	G 5	6603	I 6	-	-
3474	F11	6604	J 5	-	-
3475	A 3	6605	J 6	-	-
3476	B 3	6610	M 1	-	-
3477	B 4	6611	N 1	-	-
3478	A 4	6612	N 1	-	-
3483	F14	6617	O 5	-	-
3485	D12	6621	M 6	-	-
3538	E17	6622	O 6	-	-
3539	O17	6624	M 7	-	-
3542	D13	6625	L 7	-	-
3543	E13	6630	I13	-	-
3545	D14	6640	I10	-	-
3549	D25	6641	J10	-	-
3550	D24	6646	N11	-	-
3551	C22	6648	N10	-	-



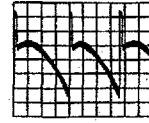
TP 21
0,5 V/div DC
5 μ S/div



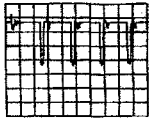
TP 26 ϕ
0,1 V/div AC
5 mS/div



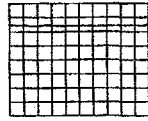
TP 30
2 V/div DC
5 μ S/div



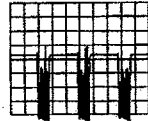
TP 41 a
5 V/div AC
5 mS/div



TP 21 ϕ
0,5 V/div DC
10 μ S/div



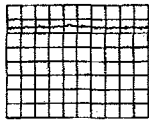
TP 27
1 V/div DC



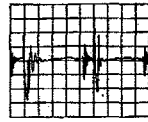
TP 30 ϕ
1 V/div DC
10 mS/div



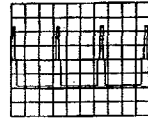
TP 41 b
5 V/div AC
5 mS/div



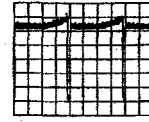
TP 22
1 V/div DC



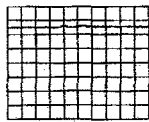
TP 27 ϕ
50 mV/div AC
10 mS/div



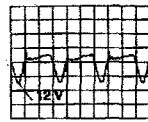
TP 31
2 V/div DC
20 μ S/div



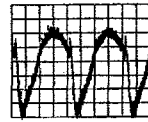
TP 41 c
0,1 V/div AC
5 mS/div



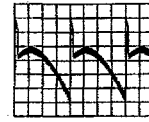
TP 23
1 V/div DC



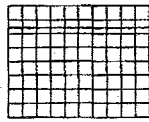
TP 28
0,5 V/div AC
5 μ S/div



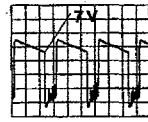
TP 36
0,2 V/div AC
5 mS/div



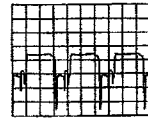
TP 41 d
5 V/div AC
5 mS/div



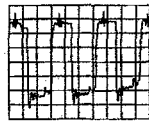
TP 24
5V/div DC



TP 28 ϕ
1 /div AC
10 mS/div



TP 37
2 V/div AC
20 μ S/div



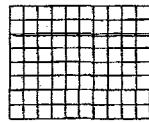
TP 25
0,2 V/div AC
5 μ S/div



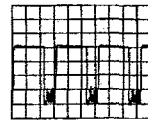
TP 29
0,5 V/div AC
5 μ S/div



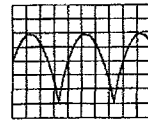
TP 38
20 mV/div AC
20 μ S/div



TP 26
1 V/div DC



TP 29 ϕ
1 V/div AC
10 mS/div



TP 41
2 V/div AC
5 mS/div

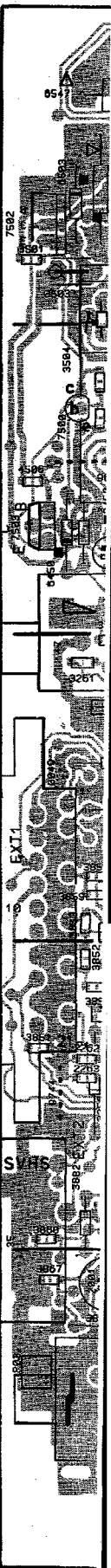
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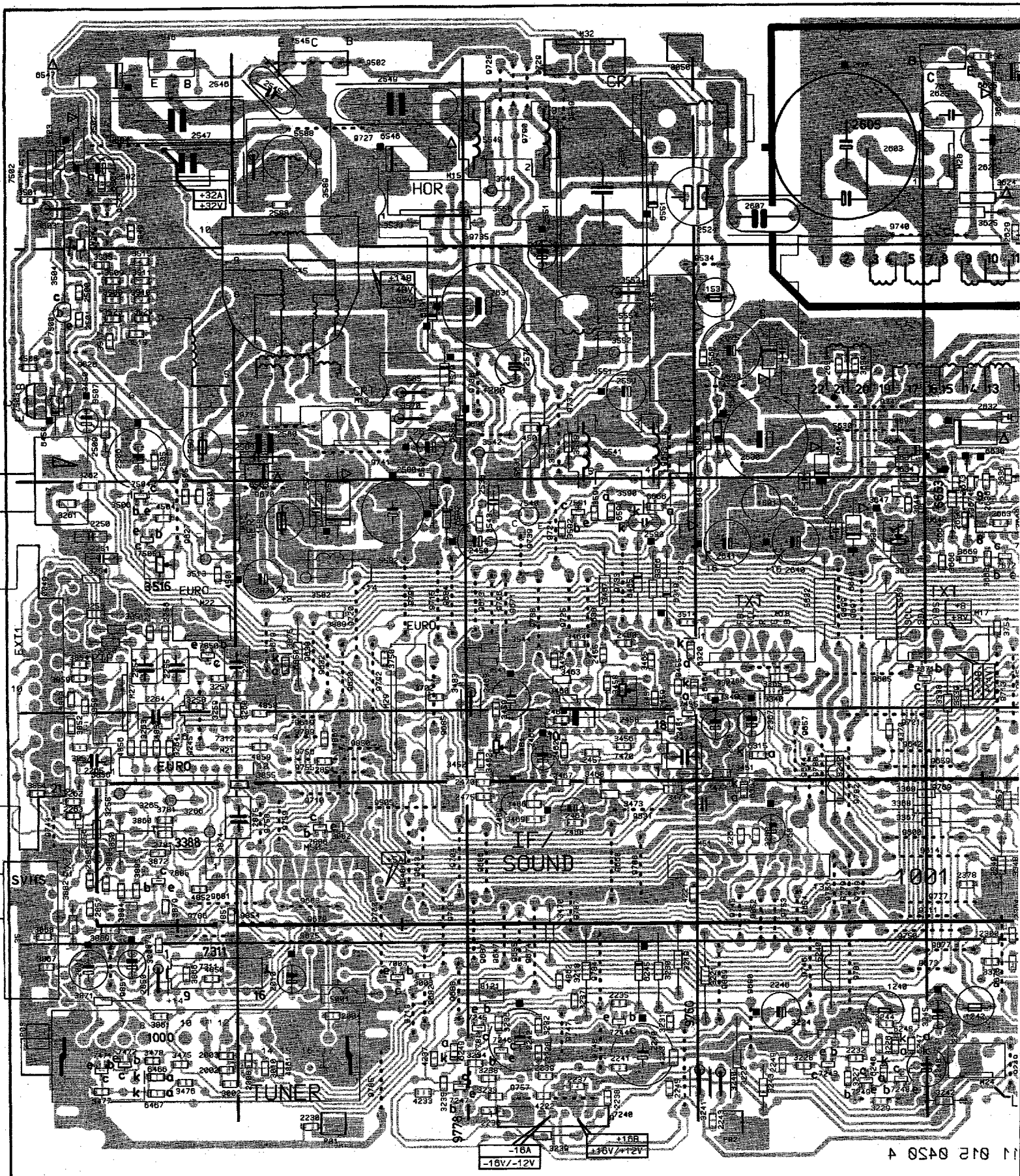
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3

4

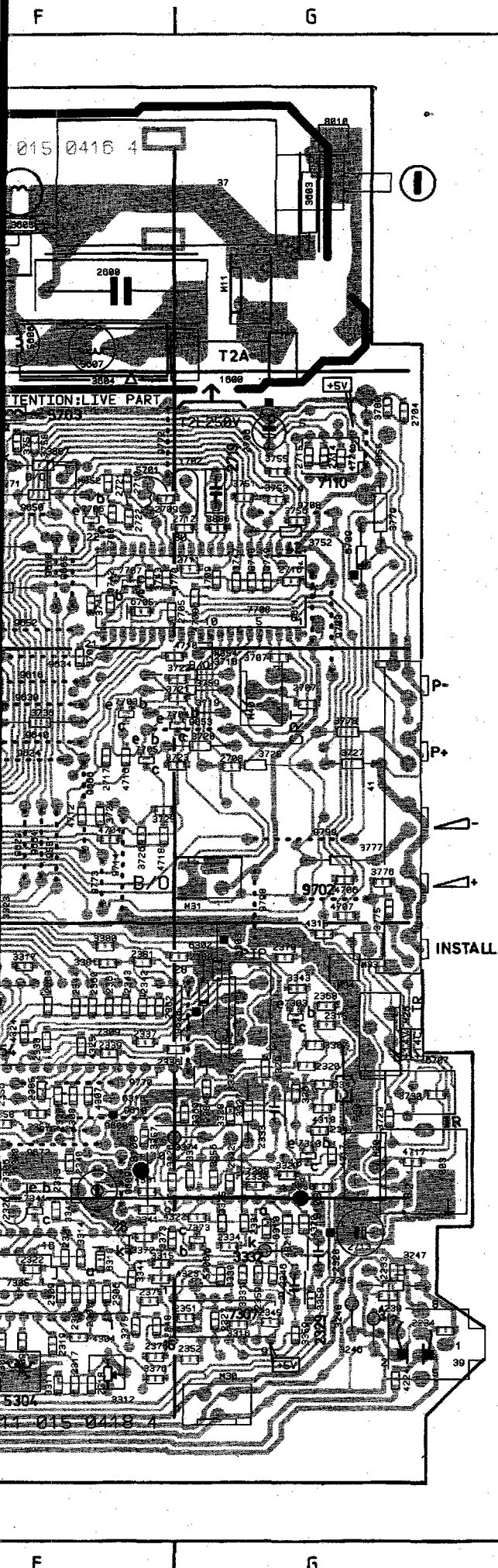
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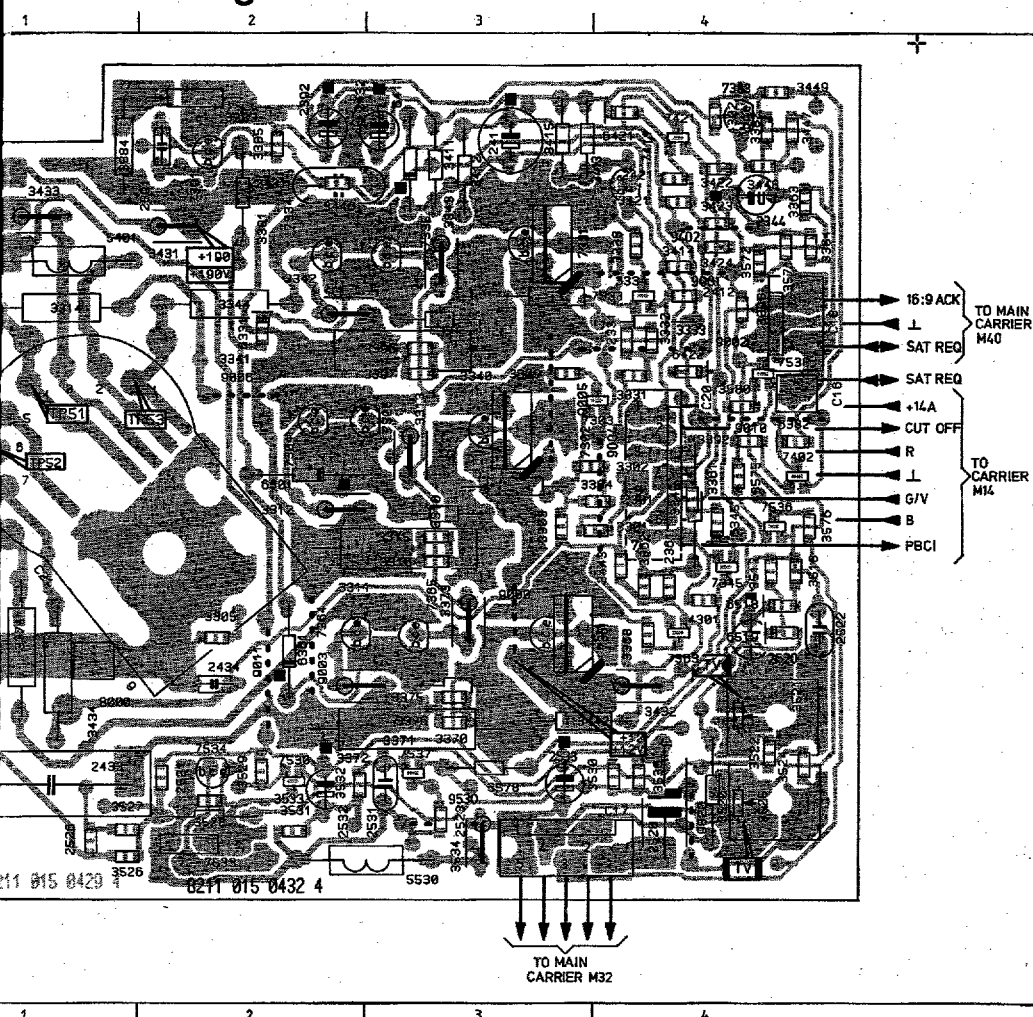


M10 F1	2341 F5	2712 F2	3358 G5
M11 G1	2342 F4	2713 G5	3359 G5
M12 G4	2343 F4	2714 G2	3360 F4
M13 B2	2344 F4	2715 G2	3361 G4
M14 E4	2345 G5	2716 G2	3362 F4
M15 B1	2346 G5	2717 F3	3365 D3
M16 A3	2347 G4	2718 F2	3366 C5
M17 D3	2349 F5	2719 F2	3367 D4
M18 C3	2350 G5	2721 F2	3368 D4
M19 E5	2351 F5	2722 F2	3369 D4
M20 G4	2352 F5	2781 A4	3370 F4
M21 A4	2353 F5	2850 A5	3371 E4
M22 A3	2354 F4	2851 A4	3372 F5
M23 E5	2355 E5	2852 A4	3373 F5
M24 E5	2356 F4	2854 B4	3374 F4
M25 E2	2357 F4	2875 A4	3375 F5
M26 G4	2358 F4	3001 A5	3376 F5
M27 A4	2359 G5	3002 A5	3380 F4
M28 D1	2360 F4	3003 B5	3381 F4
M29 B4	2361 F4	3010 A5	3450 A4
M30 G5	2362 F4	3218 C5	3451 C4
M31 F3	2363 F4	3219 C5	3452 B4
M32 C1	2364 E5	3220 C5	3455 C5
M33 A4	2365 F4	3221 C5	3456 C4
M34 G4	2366 E4	3222 D5	3457 C4
M40 G3	2367 D4	3224 D5	3458 C5
M50 B4	2368 G4	3225 D5	3459 B4
M51 D4	2370 E5	3226 D5	3460 C4
M52 F2	2371 E4	3227 D5	3461 C4
M53 E3	2372 E4	3228 D5	3462 B4
M54 F3	2373 E4	3229 D5	3463 C5
P01 B5	2374 F4	3230 C5	3464 C5
P02 C5	2375 F5	3231 C5	3465 C5
P03 A5	2376 F5	3232 C5	3466 C4
0035 A5	2378 E4	3233 B5	3467 C5
0037 G1	2379 G4	3234 B5	3468 C4
0039 G5	2380 F4	3235 B5	3469 C4
0041 G3	2381 F4	3236 B5	3470 C5
0049 A4	2384 F4	3237 C5	3471 C4
1000 A5	2385 F4	3238 B5	3473 C4
1003 G5	2386 F4	3239 C5	3474 C2
1240 D5	2450 B3	3240 C5	3475 A5
1242 E5	2451 C4	3241 C5	3476 A5
1300 F5	2455 C3	3242 D5	3477 A5
1504 C2	2456 C4	3243 D5	3478 A5
1559 A2	2457 C4	3244 D5	3483 B4
1560 B3	2458 C4	3245 D5	3485 C4
1600 G2	2459 C4	3246 G5	3501 A1
1601 D3	2460 C3	3247 G5	3502 A1
1702 F2	2461 C4	3248 G5	3503 A1
2001 A5	2462 C4	3249 G5	3504 A2
2002 A5	2464 C4	3250 A3	3505 A3
2003 A5	2465 C4	3251 A3	3508 A3
2004 B5	2466 C4	3253 A3	3507 A2
2008 A5	2467 C4	3254 A3	3508 A2
2010 B5	2468 C4	3255 A4	3509 A2
2230 B5	2469 C4	3256 A4	3510 A2
2231 D5	2470 B4	3257 A3	3511 A2
2232 D5	2471 C4	3258 A4	3513 A3
2233 G5	2473 C4	3259 A4	3514 C3
2234 G5	2475 B4	3260 A4	3515 A2
2235 C5	2500 A2	3261 A3	3516 A3
2236 B5	2501 A2	3262 A3	3517 A2
2237 C5	2502 A1	3263 A4	3519 A2
2238 C5	2505 A3	3264 A4	3523 A2
2239 C5	2506 A3	3265 A4	3529 A2
2240 C5	2507 A3	3266 A4	3535 A2
2241 C5	2509 A2	3267 D4	3537 C2
2242 C5	2524 C1	3268 D4	3538 C2
2243 C5	2538 B3	3300 E5	3539 B2
2245 C5	2539 A3	3301 E5	3540 A2
2246 D5	2545 A1	3302 E4	3541 B3
2248 D5	2546 A1	3303 E5	3542 B2
2249 D5	2547 A1	3304 E5	3543 B3
2250 A3	2549 B1	3305 E4	3544 B3
2251 A3	2550 C1	3306 F4	3545 C2
2252 A3	2551 C2	3307 G4	3549 C1
2254 A3	2559 C2	3308 F5	3550 C1
2255 A3	2560 B2	3309 F5	3551 C2
2256 A3	2563 A3	3310 E5	3552 C2
2257 A3	2570 C2	3311 F5	3553 C2
2262 A4	2574 B3	3312 F5	3560 C2
2263 A4	2580 B3	3313 F5	3570 B2
2264 A4	2585 B2	3314 F5	3582 B3
2265 A4	2588 B1	3315 F5	3585 B2
2266 D4	2590 C3	3316 G5	3588 A2
2300 E5	2600 F1	3317 F4	3589 B1
2301 E5	2603 D1	3318 E4	3590 C3
2303 E5	2605 D1	3319 E5	3591 C3
2304 E5	2607 D1	3320 E5	3592 C3
2305 E4	2611 E2	3321 E5	3603 G1
2306 F5	2617 E1	3322 E5	3604 F2
2307 F5	2620 E1	3323 F4	3605 F1
2308 F5	2625 D1	3324 C3	3606 F1
2309 F5	2626 E1	3325 G5	3610 E1
2310 F5	2629 E2	3326 F5	3617 E1
2311 E5	2630 D2	3327 G4	3619 E1
2312 E5	2631 C2	3328 G4	3620 E1
2313 F5	2632 E2	3329 G5	3621 E1
2314 E5	2636 E3	3330 G5	3622 E1
2315 G4	2640 D3	3331 G5	3623 E1
2316 F5	2641 D3	3332 G5	3624 E1
2317 F5	2646 E2	3333 E4	3625 E1
2318 F5	2649 E3	3334 G4	3626 E1
2319 F5	2650 E3	3335 F4	3628 E2
2320 G4	2652 D3	3336 E5	3629 E2
2321 F5	2653 D3	3337 E5	3631 D1
2322 F5	2658 D2	3338 D4	3634 D1
2323 F4	2660 E2	3339 E4	3635 D1
2325 F5	2661 E2	3340 D4	3636 E1
2326 F5	2662 E3	3341 F5	3637 D1
2327 F5	2663 E3	3342 G4	3647 D1
2328 G5	2664 E3	3343 G4	3648 D1
2329 G5	2670 E2	3344 F5	3649 E2
2330 G5	2671 E3	3347 E4	3658 E2
2331 F5	2675 D2	3348 E4	3659 D1
2332 G5	2676 D2	3349 E4	3660 E2
2333 G4	2704 G2	3350 E4	3661 E2
2334 G5	2705 F2	3351 E4	3662 E2
2335 F5	2706 G2	3352 E4	3663 E2
2336 F4	2707 G3	3353 E4	3664 E2
2337 F4	2708 G3	3354 E4	3665 E2
2338 F4	2709 F2	3355 F5	3666 D1
2339 F4	2710 F2	3356 F5	3667 E2
2340 F4	2711 F2	3357 F4	3668 E2



M10 F1	2341 F5	2712 F2	3358 G5	3689 E3	4706 G3	7306 F5	9695 C3
M11 G1	2342 F4	2713 G5	3359 G5	3670 E2	4707 G4	7307 F5	9696 B2
M12 G4	2343 F4	2714 G2	3360 F4	3671 E3	4708 F2	7308 G5	9697 D3
M13 B2	2344 F4	2715 G2	3361 G4	3672 F3	4709 F2	7309 F4	9698 D3
M14 E4	2345 G5	2716 G2	3362 F4	3673 D3	4710 F3	7310 G4	9700 B5
M15 B1	2346 G5	2717 F3	3363 D3	3674 E3	4712 F3	7311 A5	9702 G4
M16 A3	2347 G4	2718 F2	3366 C3	3675 E3	4716 F3	7312 A4	9703 G3
M17 D3	2349 F5	2719 F2	3367 D4	3676 E3	4717 G4	7313 F5	9704 B4
M18 C3	2350 G5	2721 F2	3368 D4	3677 E2	4718 F3	7370 F4	9708 G2
M19 E5	2351 F5	2722 F2	3369 D4	3701 F3	4721 G2	7371 D3	9710 B4
M20 G4	2352 F5	2781 A4	3370 F4	3702 B4	4850 A5	7373 F5	9711 D4
M21 A4	2353 F5	2850 A5	3371 E4	3707 G3	4851 A4	7455 C4	9712 E4
M22 A3	2354 F4	2851 A4	3372 F5	3718 F3	4852 A4	7470 C4	9713 E4
M23 E5	2355 E5	2852 A4	3373 F5	3719 F3	4856 A4	7471 A5	9714 F3
M24 E5	2356 F4	2854 B4	3374 F4	3720 F3	4857 A4	7472 A5	9715 B5
M25 E2	2357 F4	2875 A4	3375 F5	3721 F3	4858 A4	7500 A2	9718 B5
M26 G4	2358 F4	3001 A5	3376 F5	3722 F3	4859 A4	7502 A1	9719 B5
M27 A4	2359 G5	3002 A5	3380 F4	3723 F3	4861 B5	7503 A2	9720 B3
M28 D1	2360 F4	3003 B5	3381 F4	3724 F3	4862 C5	7504 A3	9721 D4
M29 B4	2361 F4	3010 A5	3450 A2	3725 F3	4867 B4	7505 A3	9724 C3
M30 G5	2362 F4	3218 C5	3451 C4	3726 F3	5001 B5	7540 C3	9725 C3
M31 F3	2363 F4	3219 C5	3452 B4	3727 G3	5240 D5	7545 B1	9727 B1
M32 C1	2364 E5	3220 C5	3455 C3	3728 G3	5242 D4	7546 A1	9728 C1
M33 G4	2365 F4	3221 C5	3456 C4	3729 G4	5301 E5	7591 C3	9729 C1
M34 G4	2366 E4	3222 D5	3457 C4	3730 G4	5303 G4	7600 E3	9733 C3
M40 G3	2367 D4	3224 D5	3458 C3	3732 C3	5304 F5	7614 E2	9735 B2
M50 B4	2368 G4	3225 D5	3459 B4	3733 E3	5306 F4	7625 D1	9736 B2
M51 D4	2370 E5	3226 D5	3460 C4	3734 F3	5534 D1	7661 F2	9737 C2
M52 F2	2371 E4	3227 D5	3461 C4	3736 F3	5541 C2	7663 E2	9738 C3
M53 E3	2372 E4	3228 D5	3462 B4	3737 F2	5545 A2	7671 E3	9739 C3
M54 F3	2373 E4	3229 D5	3463 C3	3741 F2	5549 B1	7672 E3	9740 D2
P01 B5	2374 F4	3230 C5	3464 C3	3742 F2	5554 C2	7703 F3	9741 B2
P02 C5	2375 F5	3231 C5	3465 C3	3743 F2	5563 D3	7704 F3	9742 D2
P03 A5	2376 F5	3232 C5	3466 C4	3747 G2	5582 B3	7705 F3	9744 A4
0035 A5	2378 E4	3233 B5	3467 C3	3748 G2	5588 B1	7706 F2	9745 D4
0037 G1	2379 G4	3234 B5	3468 C4	3749 G2	5605 F1	7707 F2	9746 D5
0039 G5	2380 F4	3235 B5	3469 C4	3750 B3	5606 F1	7708 G3	9747 C5
0041 G3	2381 F4	3236 B5	3470 C5	3751 G2	5607 F2	7710 G2	9748 C5
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1000 A5	2385 F4	3238 B5	3473 C4	3753 G2	5625 D2	7885 A4	9750 D5
1003 G5	2386 F4	3239 C5	3474 C3	3754 C3	5630 D2	7886 B4	9751 D4
1240 D5	2450 B3	3240 C5	3475 A5	3755 G2	5631 C2	9245 A4	9752 D4
1242 E5	2451 C4	3241 C5	3476 A5	3756 G2	5632 D3	9246 E5	9753 D5
1300 F5	2455 C3	3242 D5	3477 A5	3757 F2	5661 F2	9247 E5	9755 B4
1534 C2	2456 C4	3243 D5	3478 A5	3758 F2	5701 F2	9248 E5	9756 B4
1559 A2	2457 C4	3244 D5	3483 B4	3759 F3	5703 F2	9249 E5	9757 C5
1580 B3	2458 C4	3245 D5	3485 C4	3768 F2	6245 C5	9300 E5	9758 A4
1600 G2	2459 C4	3246 G5	3501 A1	3770 F2	6246 D5	9502 B1	9759 B4
1601 D3	2460 C3	3247 G5	3502 A1	3771 F2	6247 D5	9505 B4	9760 C5
1702 F2	2461 C4	3248 G5	3503 A1	3772 F2	6248 D5	9522 A2	9764 E4
2001 A5	2462 C4	3249 G5	3504 A2	3775 G4	6249 B5	9523 A1	9766 E4
2002 A5	2464 C4	3250 A3	3505 A3	3776 G3	6300 E5	9534 C2	9768 D3
2003 A5	2465 C4	3251 A3	3506 A3	3777 G3	6302 F4	9549 C1	9769 D4
2004 B5	2466 C4	3252 A3	3507 A2	3778 G3	6303 G4	9551 F3	9770 F4
2008 A5	2467 C4	3254 A3	3508 A2	3779 G2	6310 G5	9600 D4	9772 F2
2010 B5	2468 C4	3255 A4	3509 A2	3780 G2	6315 D4	9605 D3	9773 F3
2230 B5	2469 C4	3256 A4	3510 A2	3781 A4	6316 F4	9608 F4	9775 B2
2231 D5	2470 B4	3257 A3	3511 A2	3850 A4	6317 E3	9609 F5	9777 D4
2232 D5	2471 C4	3258 A4	3513 A3	3851 A4	6318 F5	9610 F4	9778 B5
2233 G5	2473 C4	3259 A4	3514 C3	3852 A4	6319 C3	9611 G2	9779 D4
2234 G5	2475 B4	3260 A4	3515 A2	3853 A4	6320 C3	9612 E4	9780 D4
2235 C5	2500 A2	3261 A3	3516 A3	3854 A4	6367 D4	9613 B3	9781 D5
2236 B5	2501 A2	3262 A3	3517 A2	3855 A4	6450 A2	9614 D4	9783 D5
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2243 C5	2538 B3	3300 E5	3539 B2	3862 B4	6546 B1	9623 E3	9790 C1
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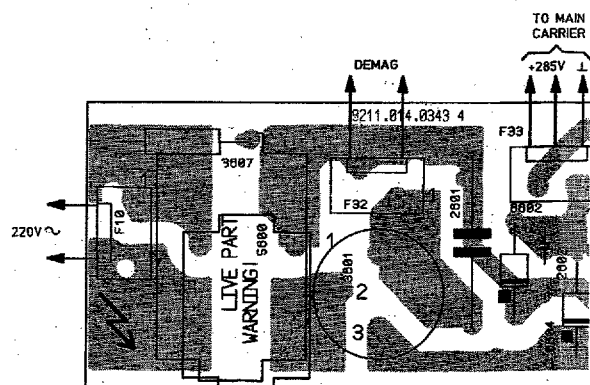
module "narrowneck" / Bildröhren Modul "narrowneck" /
 port tube image "narrowneck"



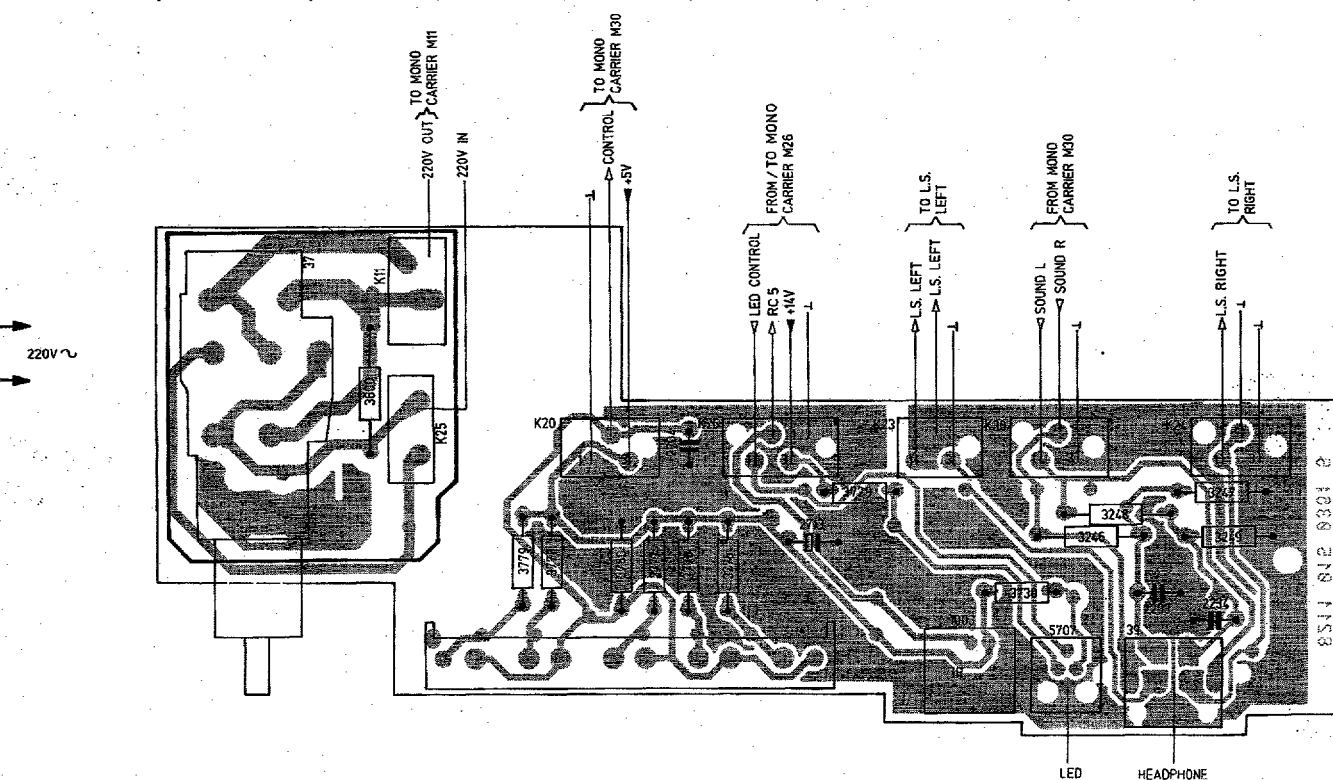
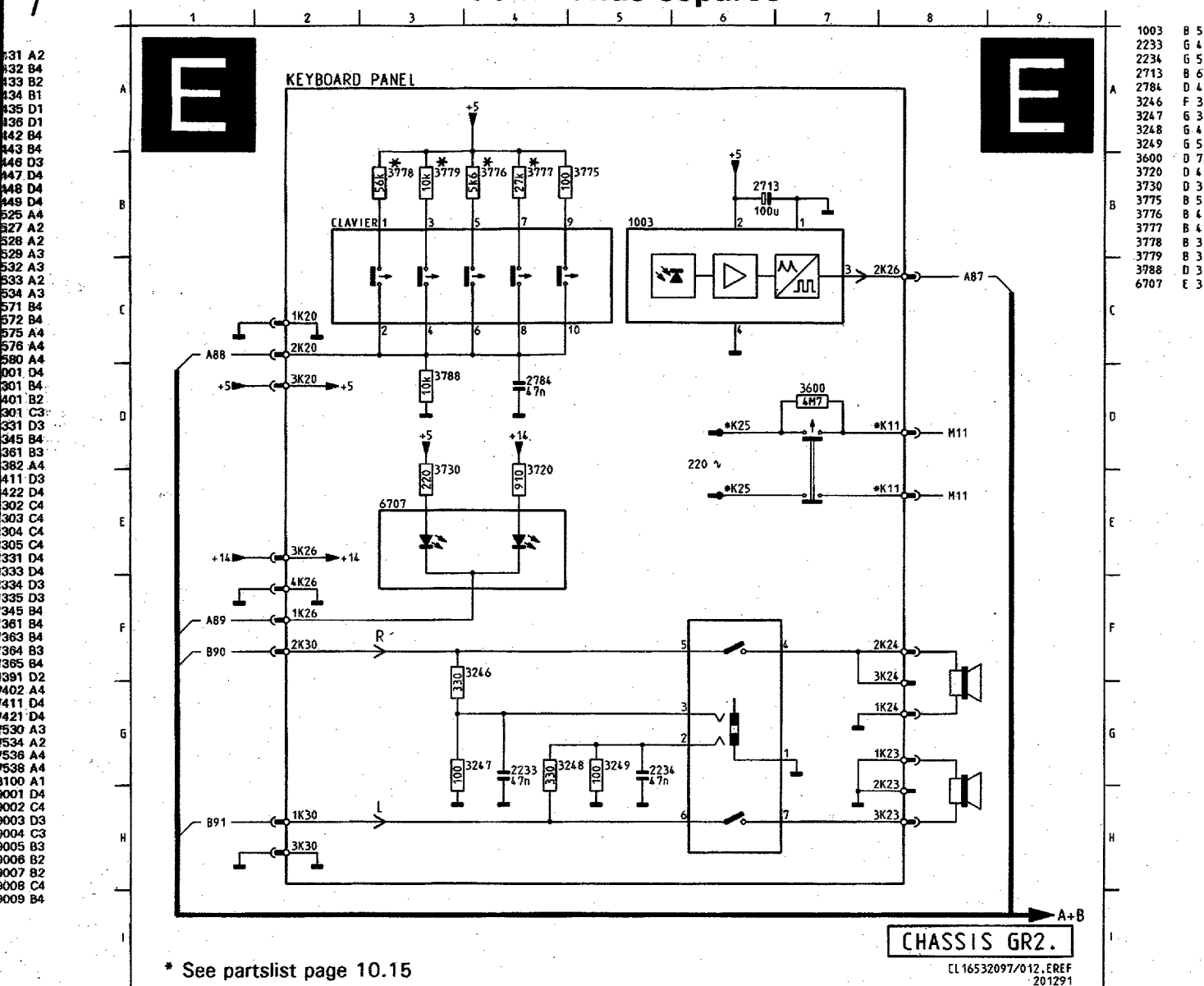
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2301 B3	3382 A4	6331 A2
2331 A3	3383 A2	6345 B4
2344 A4	3384 A1	6361 C2
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2522 C4	3422 A4	7334 A2
2523 C3	3423 A4	7335 A2
2526 C1	3424 A4	7345 B4
2528 C4	3431 A2	7381 C3
2531 C2	3432 C4	7363 C4
2532 C2	3433 A1	7364 C2
2533 C3	3434 C1	7365 C3
3301 B3	3435 B1	7383 A4
3302 B3	3436 C1	7391 A2
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3316 B3	3522 C4	9001 A4
3331 B4	3524 C4	9002 A4
3332 A4	3525 C4	9003 C2
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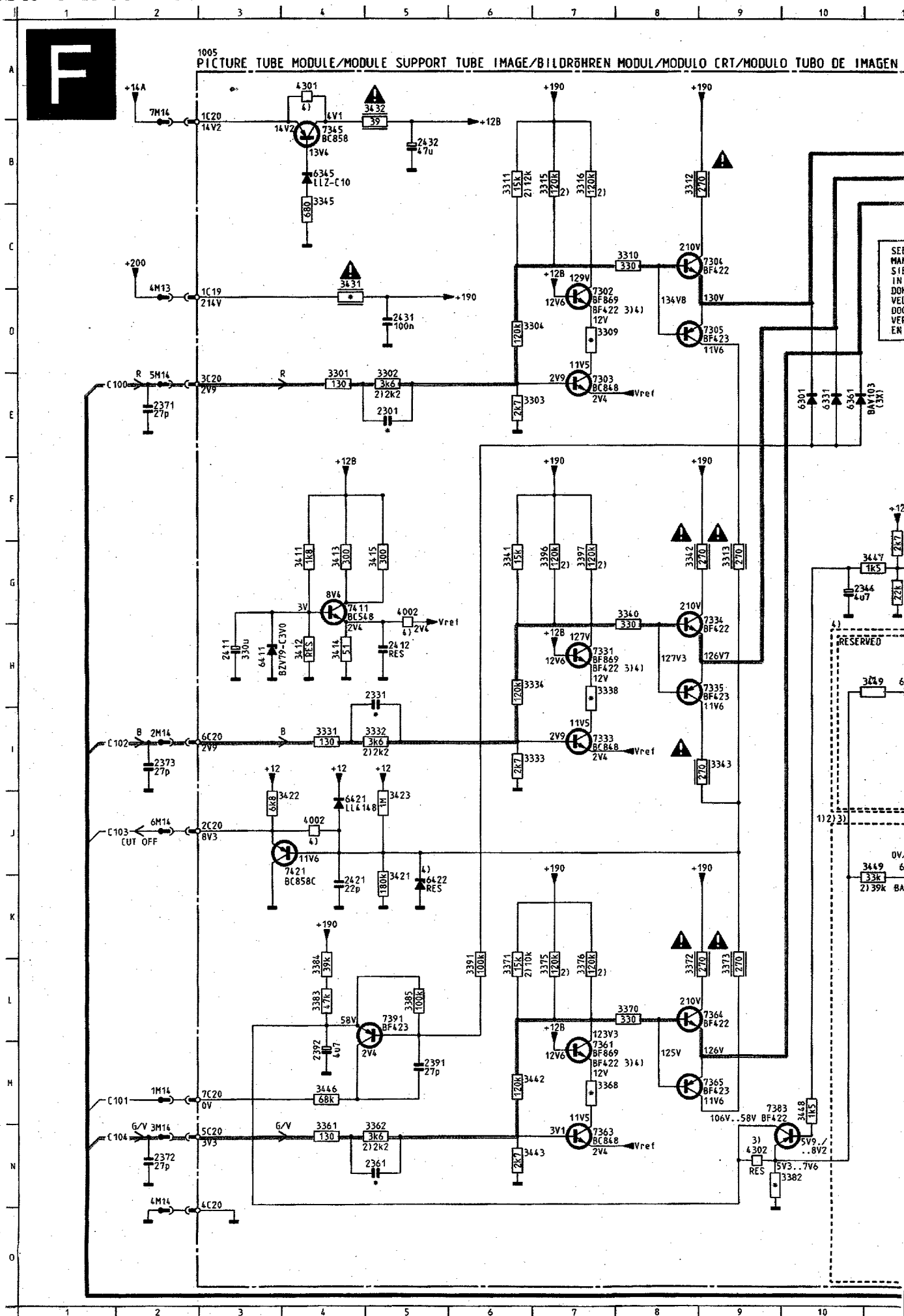
Module
 te
 eur

Mains module
 Netzteil
 Module secteur



Separate Controle/Separate Bedienung/ Commande séparée





BO DE IMAGEN

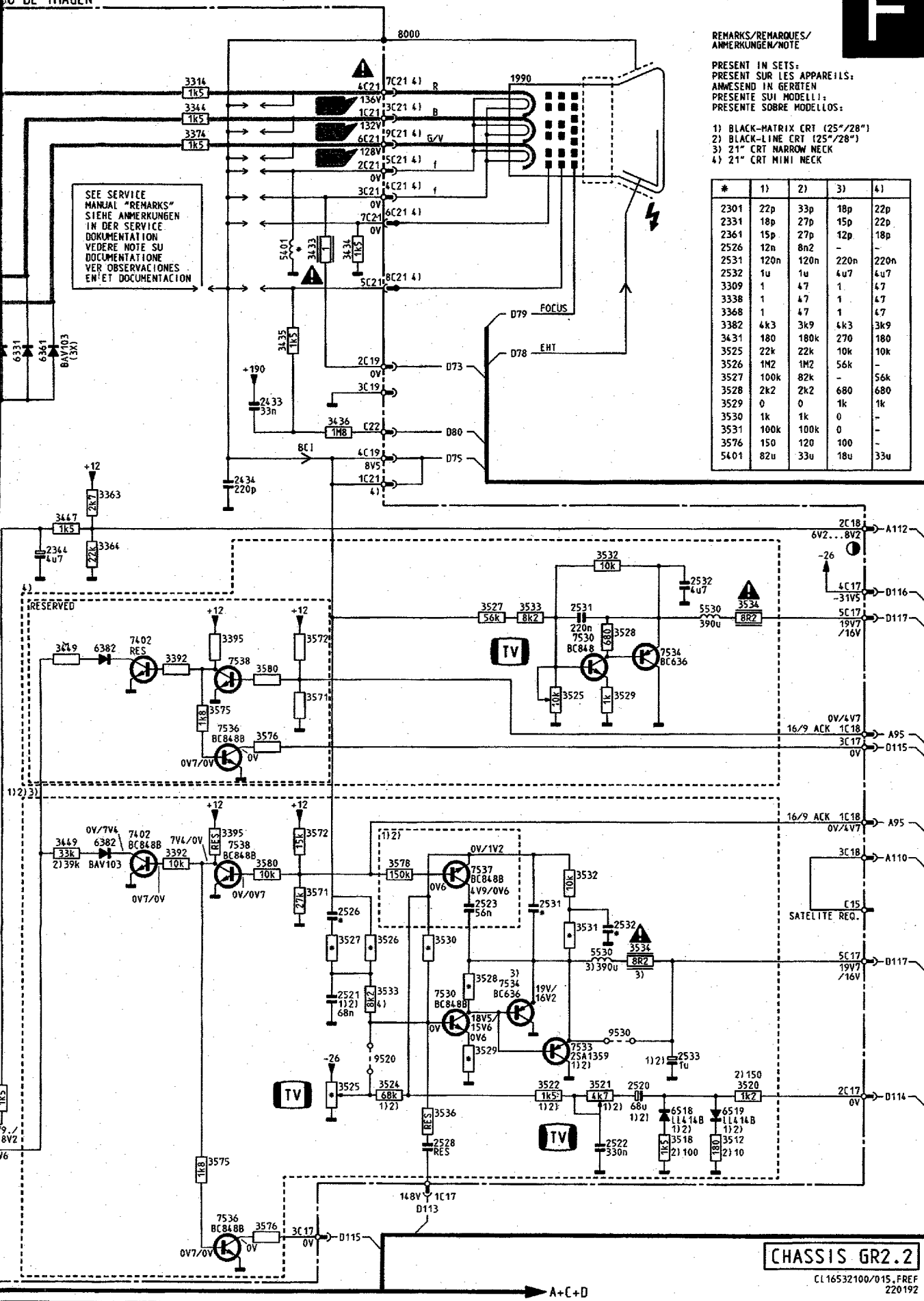
REMARKS/REMARQUES/
ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESENDE IN GERÄTEN:
PRESENTI SUI MODELLI:
PRESENTI SOBRE MODELOS:

- 1) BLACK-MATRIX CRT (25"/28")
2) BLACK-LINE CRT (25"/28")
3) 21" CRT NARROW NECK
4) 21" CRT MINI NECK

*	1)	2)	3)	4)
2301	22p	33p	18p	22p
2331	18p	27p	15p	22p
2361	15p	27p	12p	18p
2526	12n	8n2	-	-
2531	120n	120n	220n	220n
2532	1u	1u	4u7	4u7
3309	1	47	1	47
3338	1	47	1	47
3368	1	47	1	47
3382	4k3	3k9	4k3	3k9
3431	180	180k	270	180
3525	22k	22k	10k	10k
3526	1M2	1M2	56k	-
3527	100k	82k	-	56k
3528	2k2	2k2	680	680
3529	0	0	1k	1k
3530	1k	1k	0	-
3531	100k	100k	0	-
3576	150	120	100	-
5401	82u	33u	18u	33u

SEE SERVICE
MANUAL "REMARKS"
SIEHE ANMERKUNGEN
IN DER SERVICE
DOKUMENTATION
VEDERE NOTE SU
DOCUMENTAZIONE
VER OBSERVACIONES
EN ET DOCUMENTATION

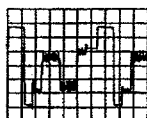


CHASSIS GR2.2

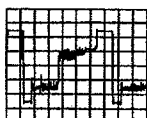
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2372	N 2	3575	N1
2373	I 2	3575	I1
2391	M 5	3576	I1
2392	M 4	3576	O1
2411	H 3	3578	K1
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2434	F13	4302	N1
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2521	L14	5530	H1
2522	N17	5530	C1
2523	K15	6301	E1
2526	K14	6331	E1
2528	N15	6345	B1
2531	H16	6361	E1
2531	K16	6382	H1
2532	G18	6382	J1
2532	K17	6411	H1
3301	E 4	6421	J1
3302	E 5	6422	K1
3303	E 6	6518	N1
3304	D 6	6519	N1
3309	D 7	7302	D1
3310	C 8	7303	D1
3311	B 6	7304	C1
3312	B 8	7305	D1
3313	G 9	7331	H1
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3316	B 7	7335	H1
3331	I 4	7345	B1
3332	I 5	7361	M1
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3342	G 8	7402	H1
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3345	B 4	7421	G1
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3373	L 9	7538	K1
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3375	L 7	9530	M1
3376	L 7		
3382	N 9		
3383	L 4		
3384	L 4		
3385	L 5		
3391	L 6		
3392	K12		
3392	H12		
3395	H12		
3395	J12		
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3411	G 4		
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3415	G 5		
3421	J 5		
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3423	J 5		
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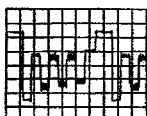
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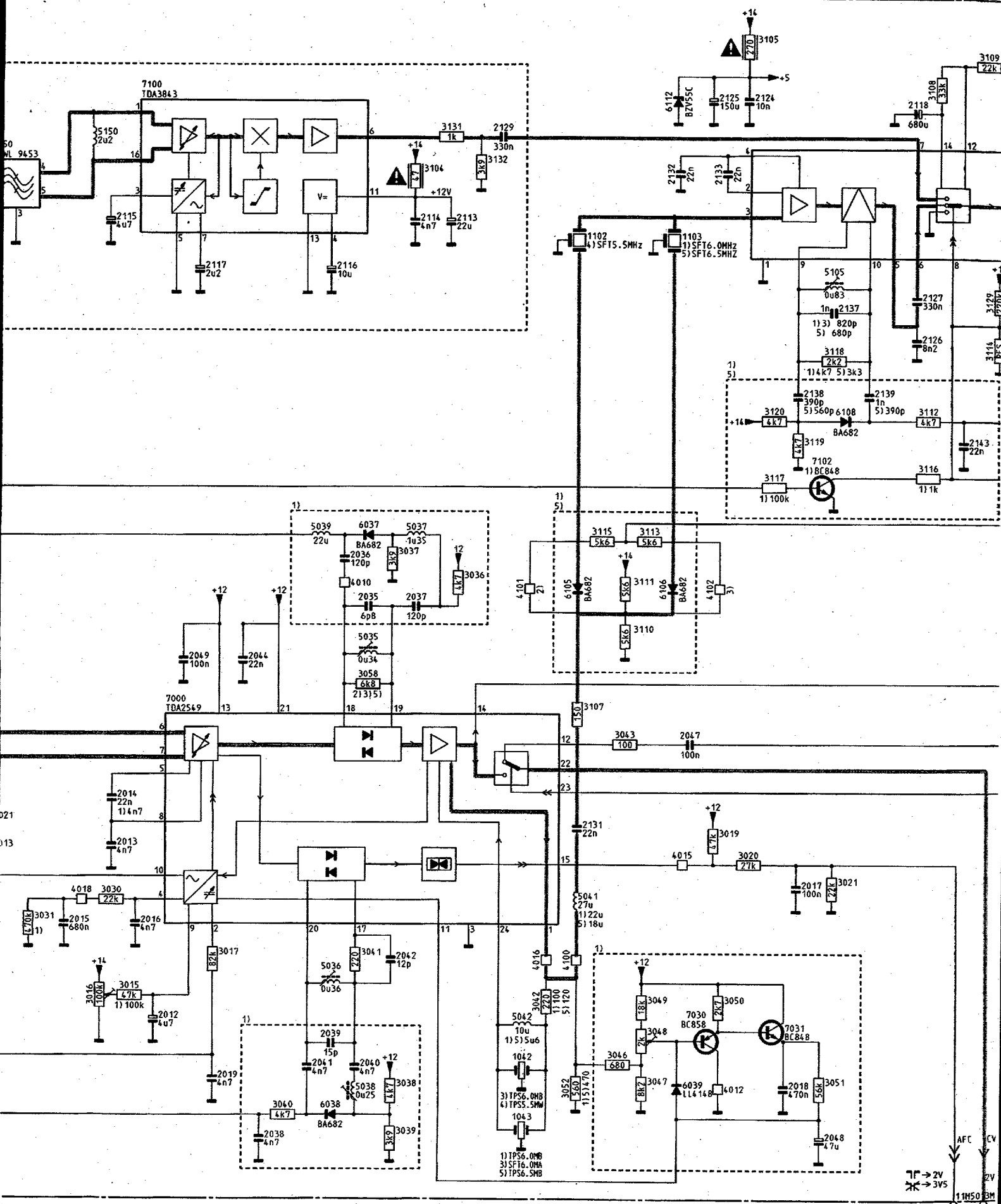
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 115 V_{pp} for 21"



TP 52
 120 V_{pp}
 115 V_{pp} for 21"



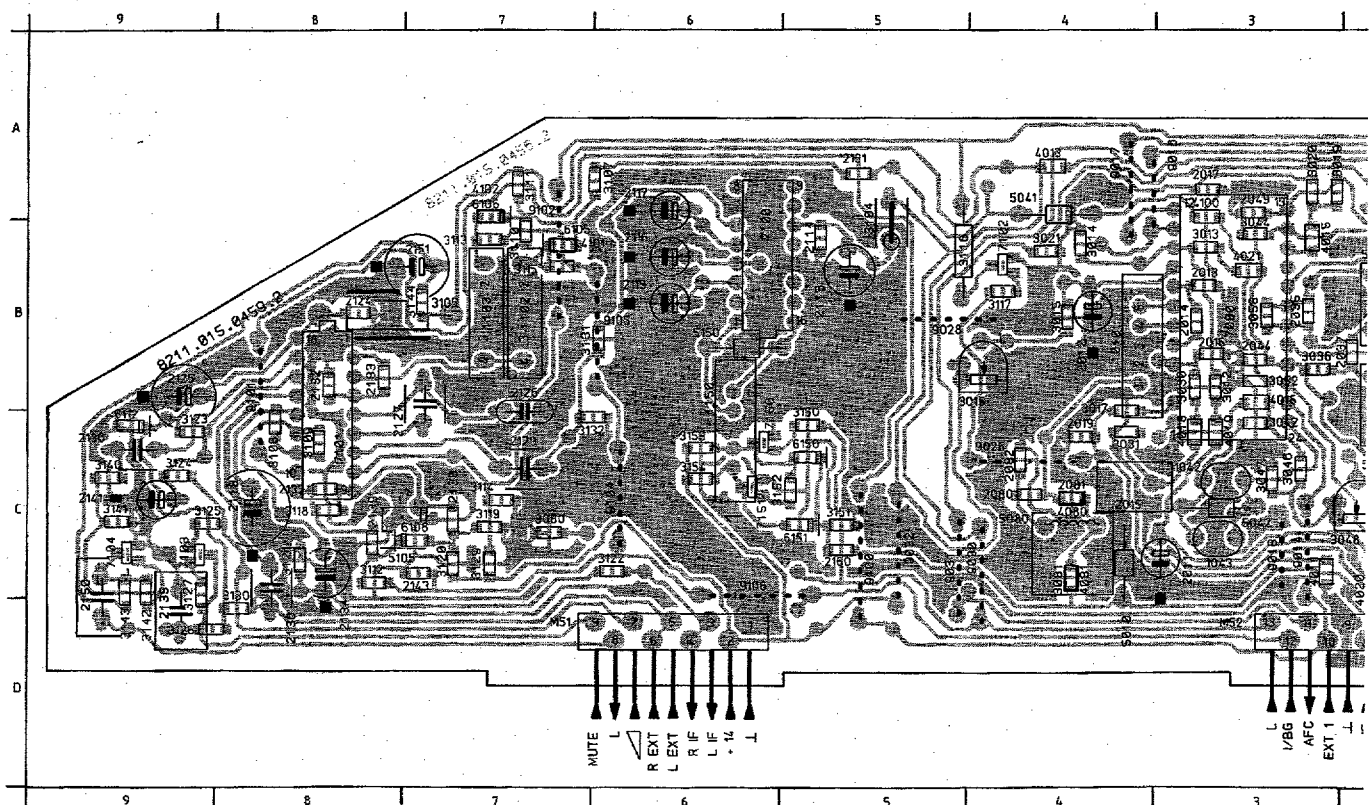
TP 53
 120 V_{pp}
 110 V_{pp} for 21"



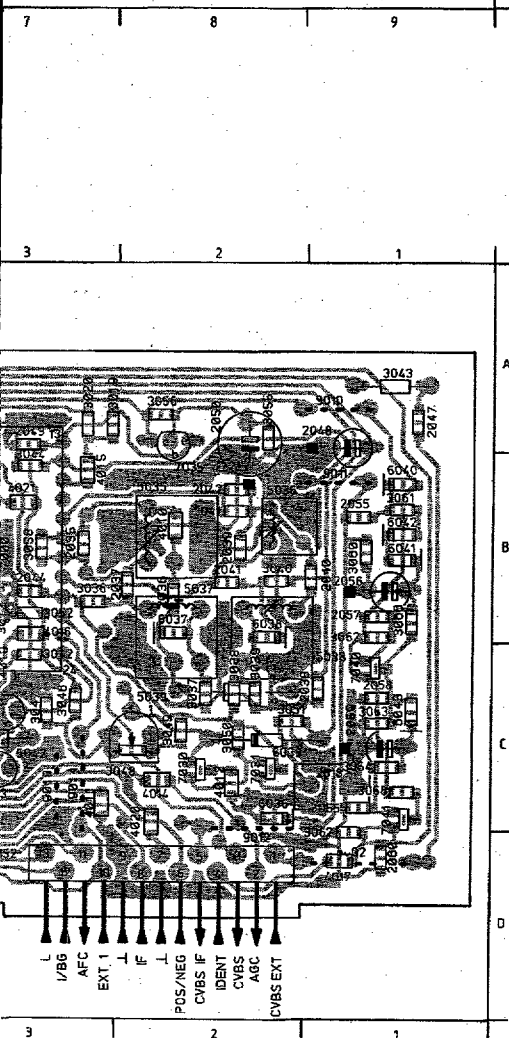
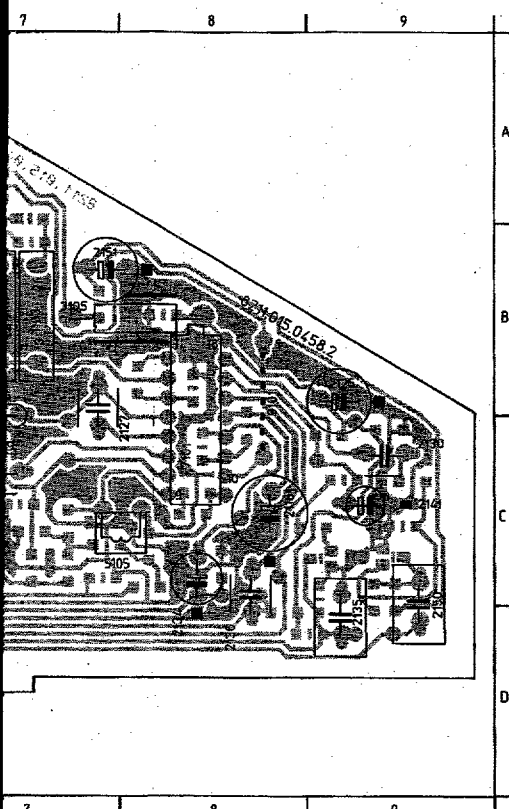


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	2013	K11	3126	D25
	2014	J11	3127	E26
C	2015	L10	3129	D21
	2016	L11	3130	E24
	2017	L19	3131	B15
	2018	M19	3132	C15
	2019	M12	3140	C24
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	2037	H14	3143	B25
	2038	O12	3144	B25
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	2115	C11	4102	H18
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	2118	B21	5036	M13
	2124	B18	5037	G14
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	2150	C26	6106	H17
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	3037	G14	7104	C25
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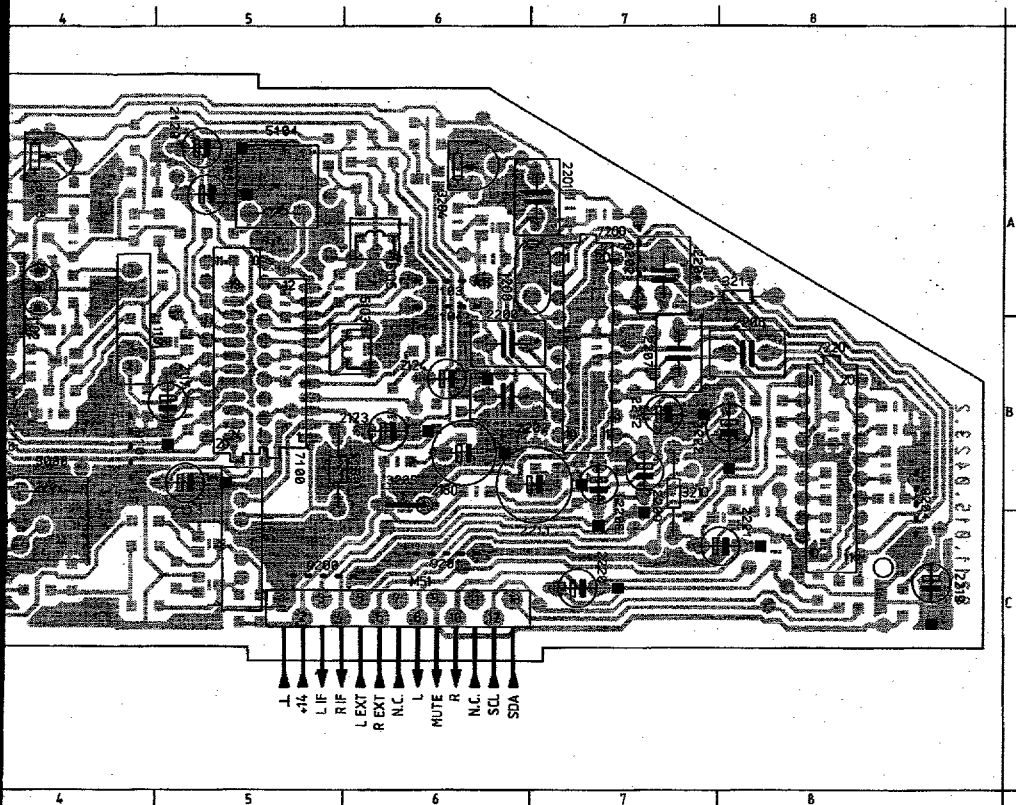


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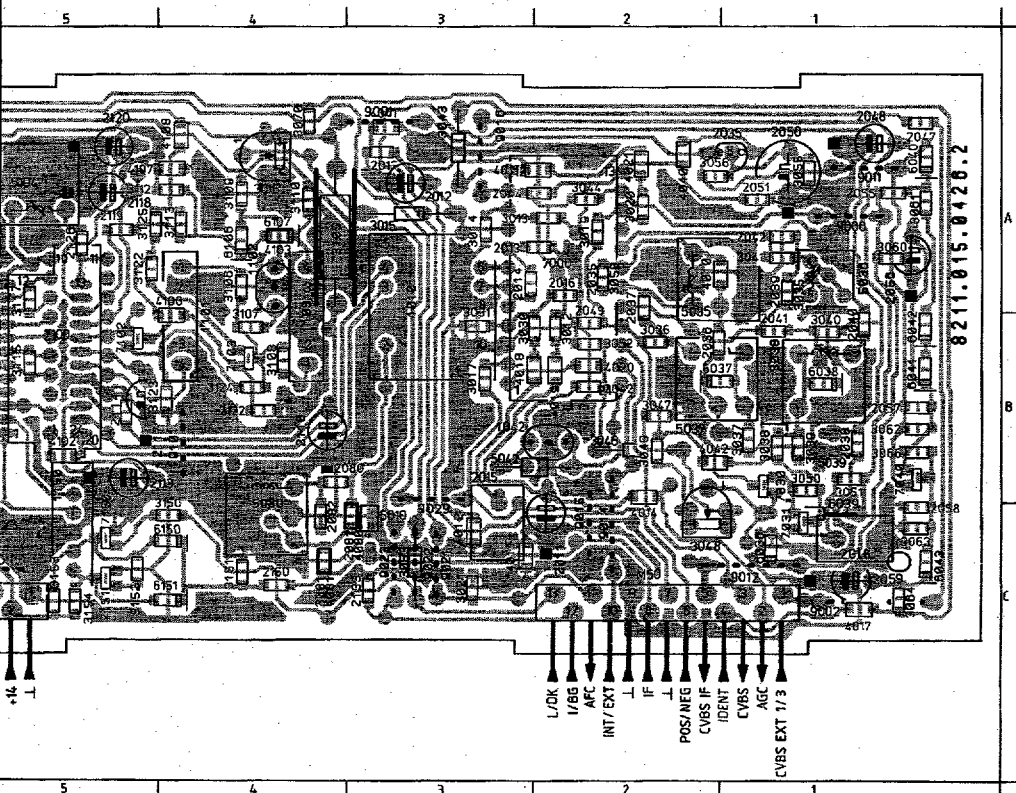


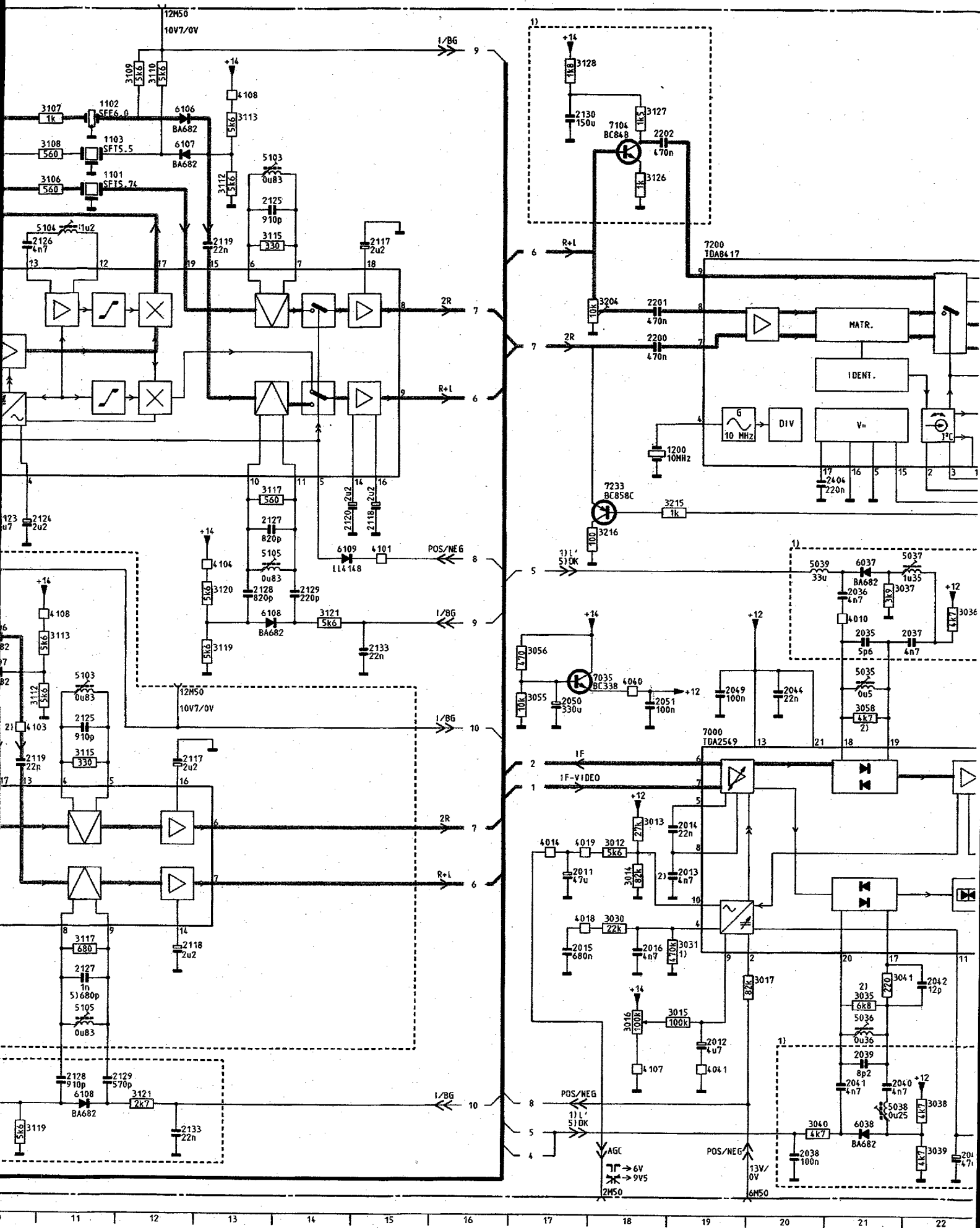
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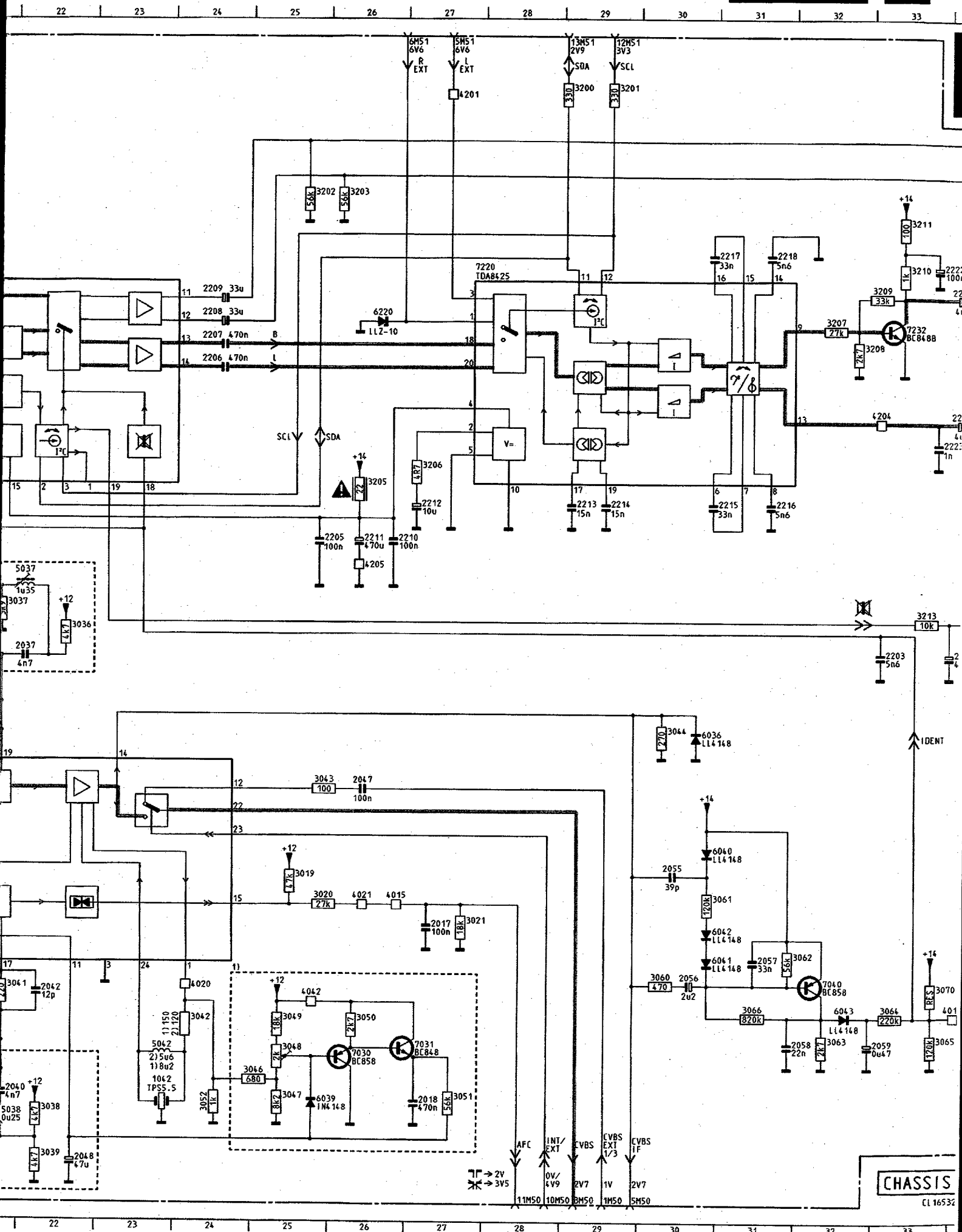
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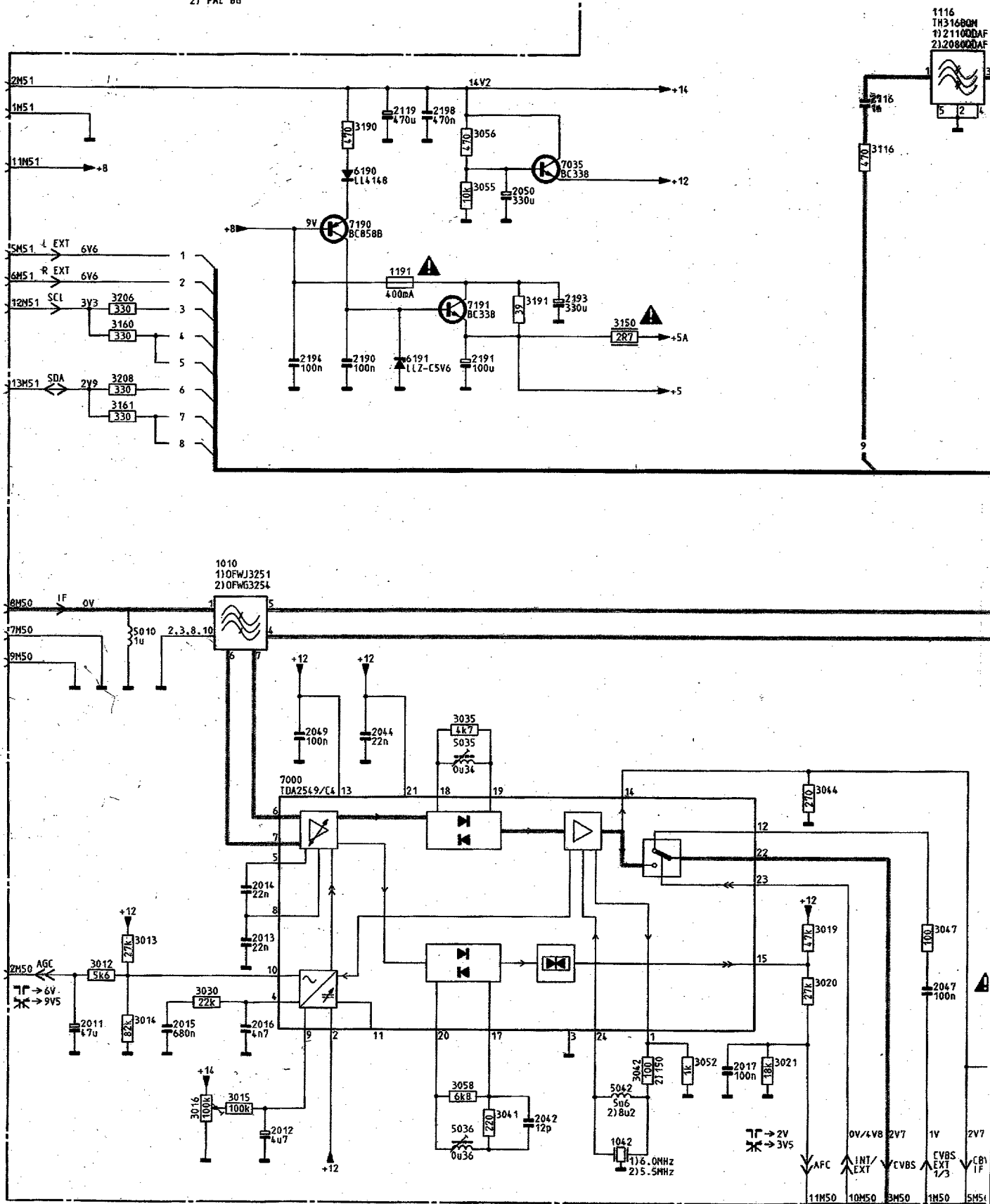


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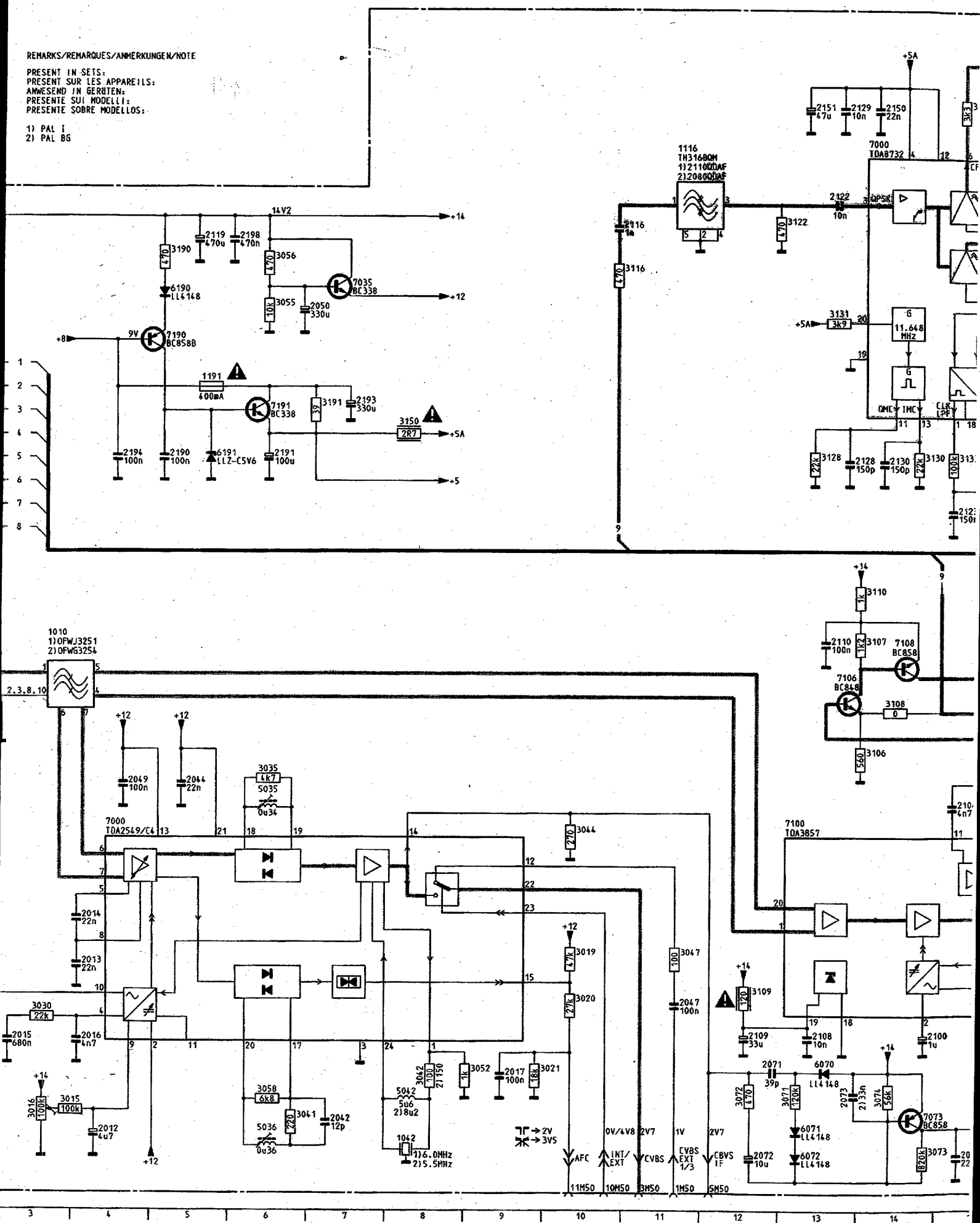
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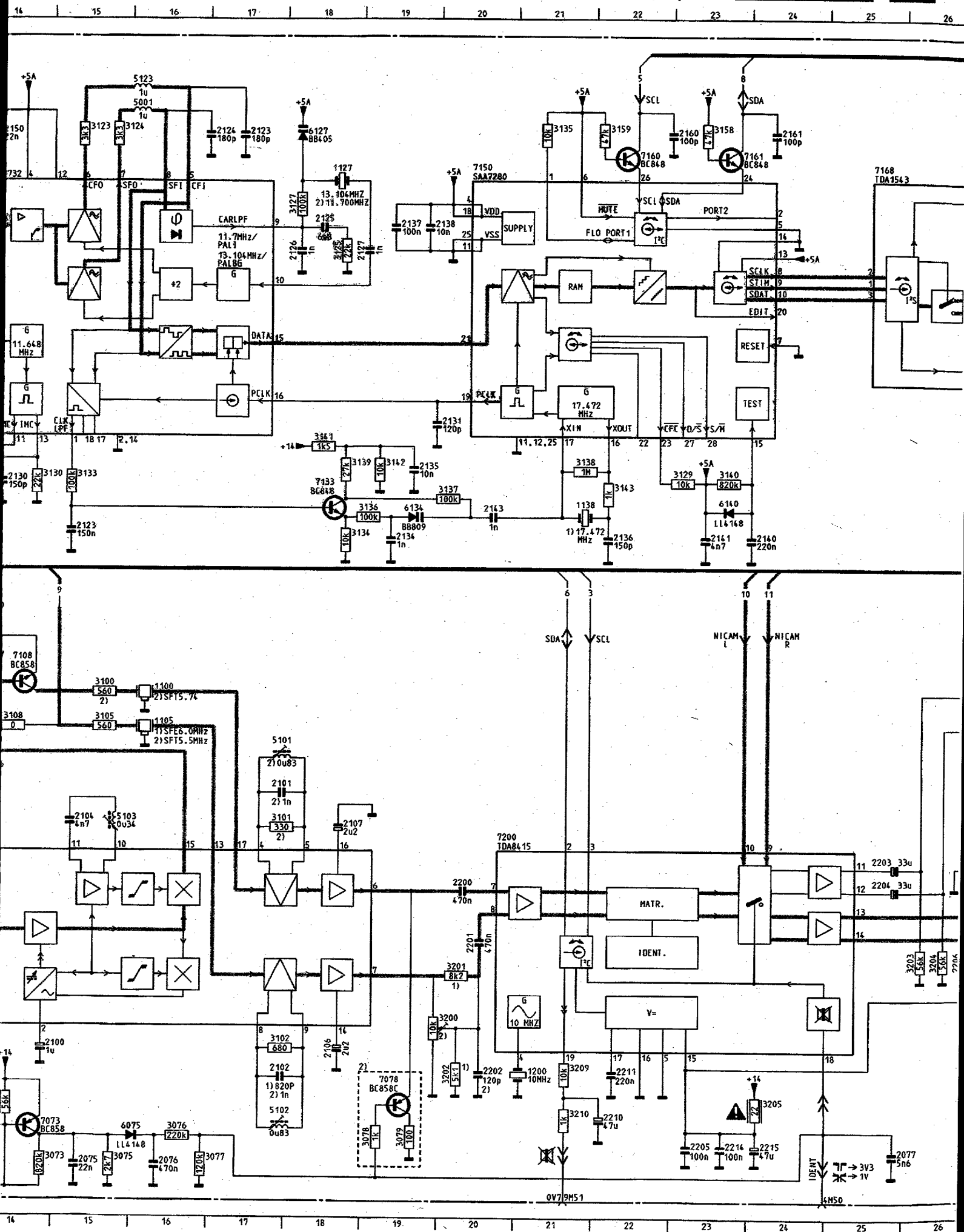
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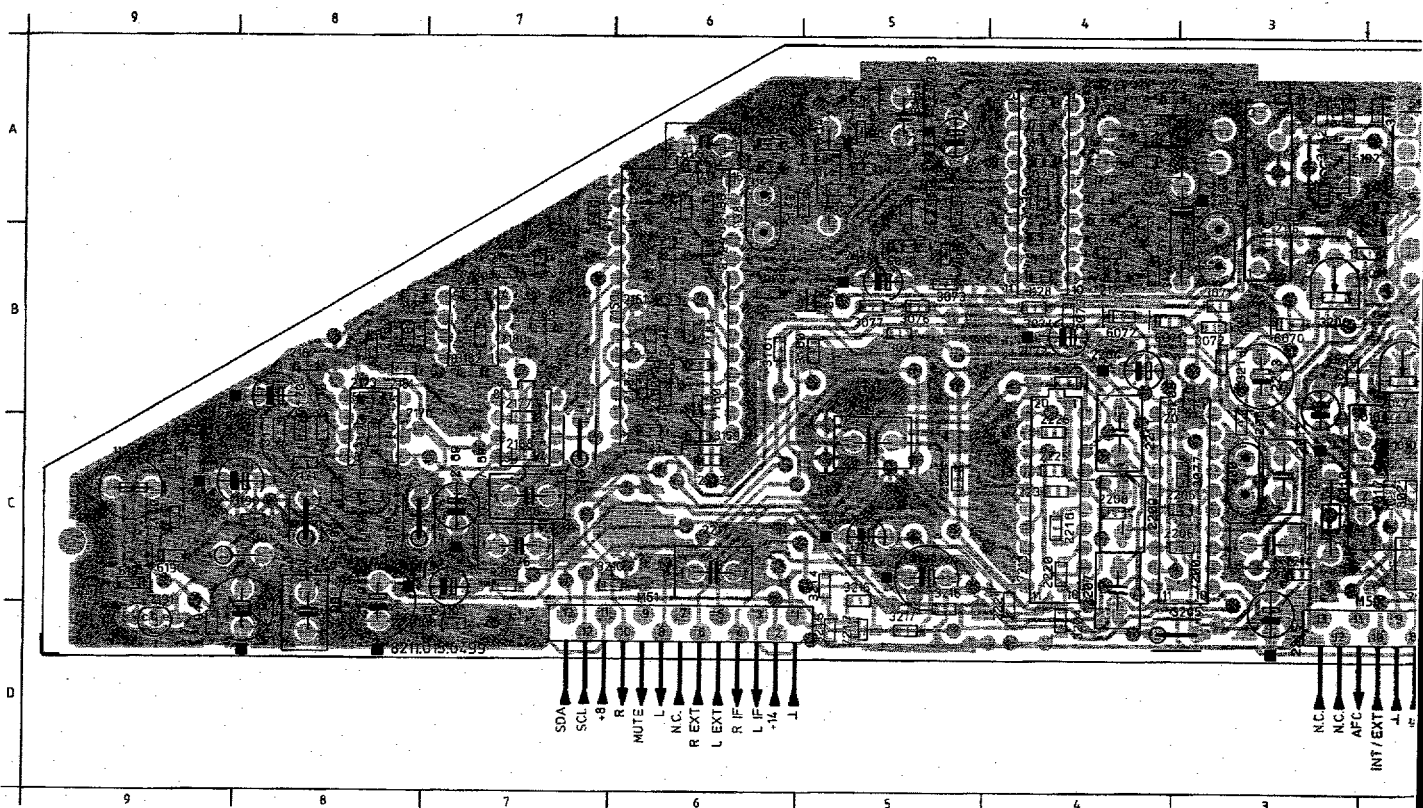
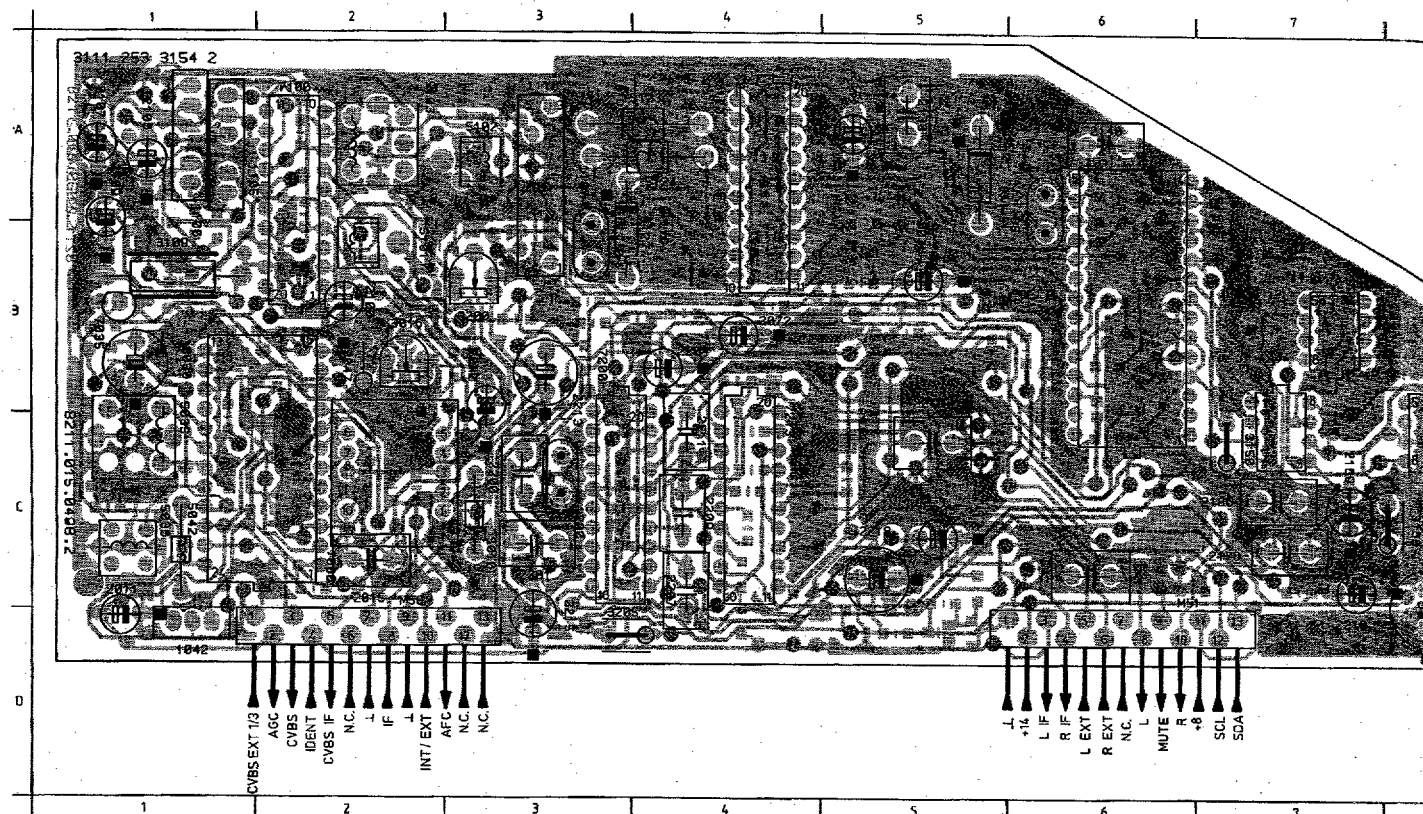
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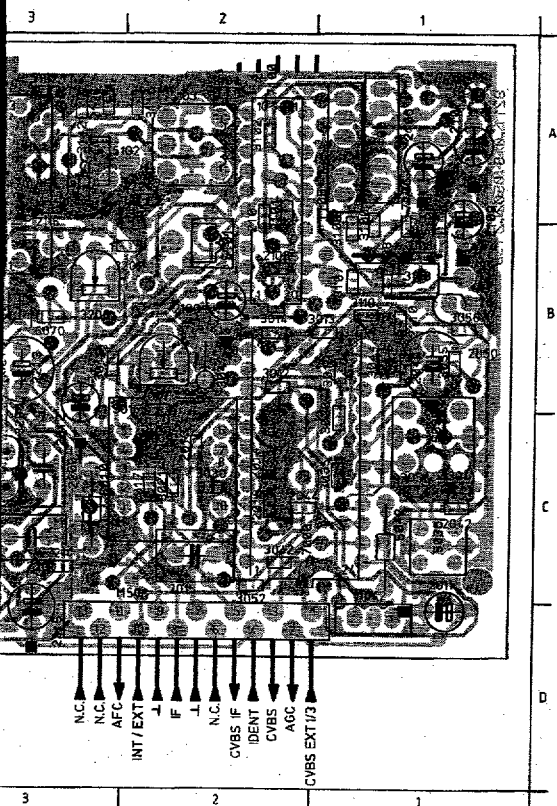
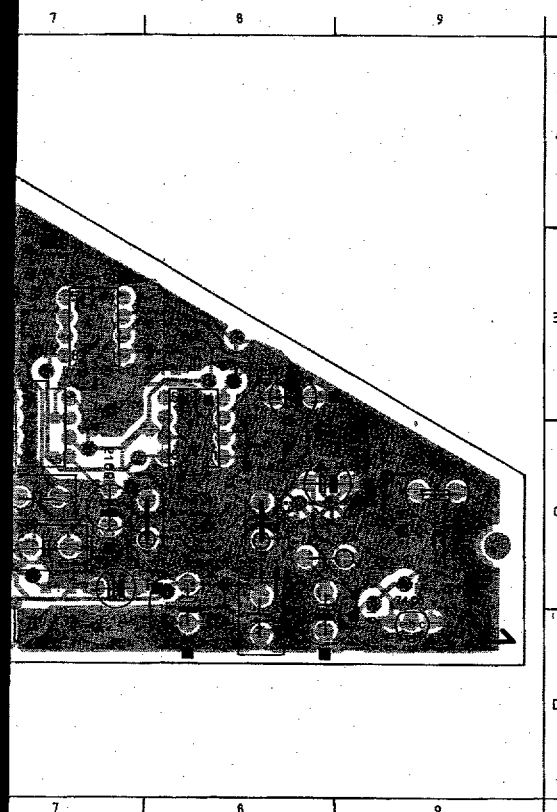
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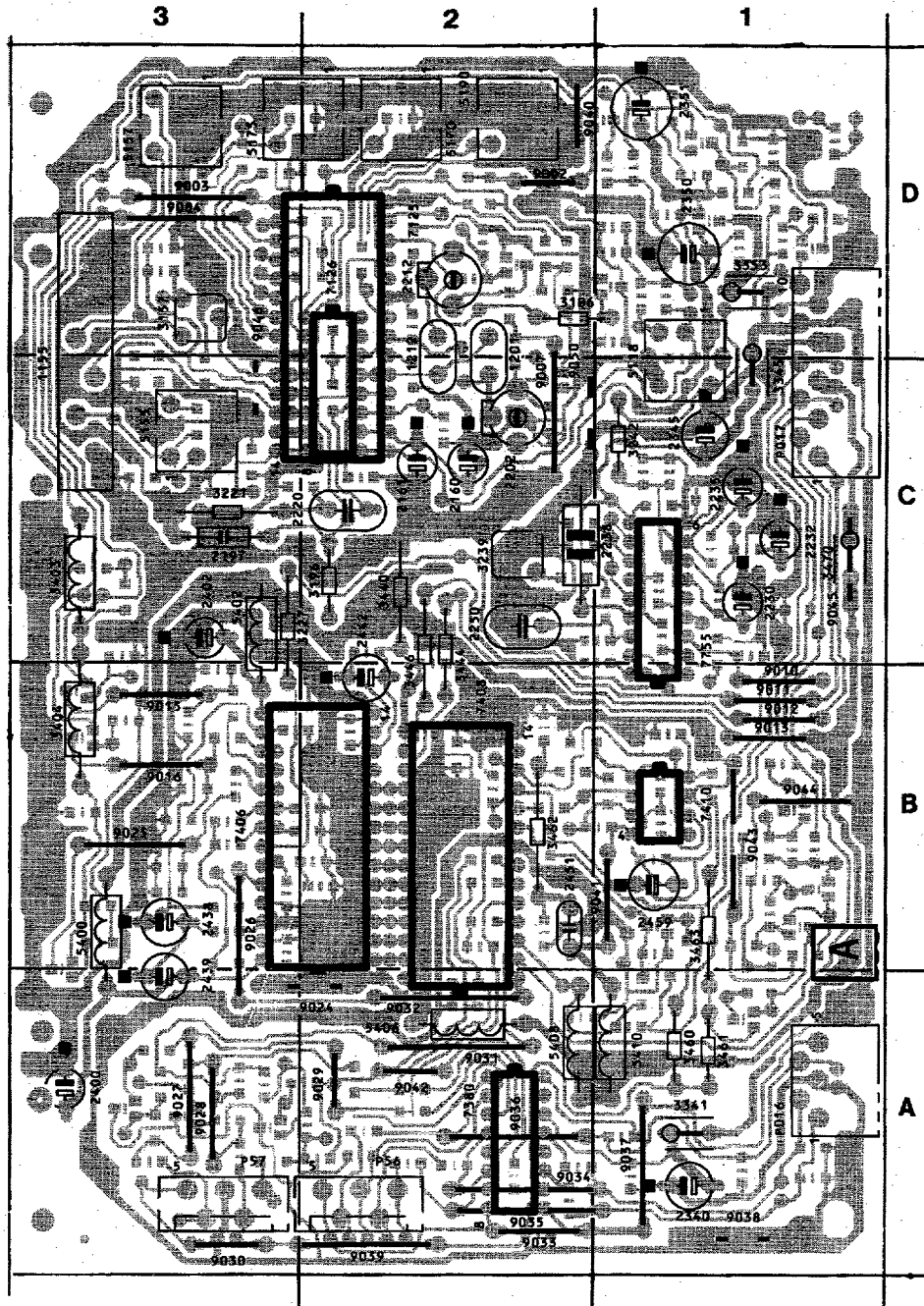




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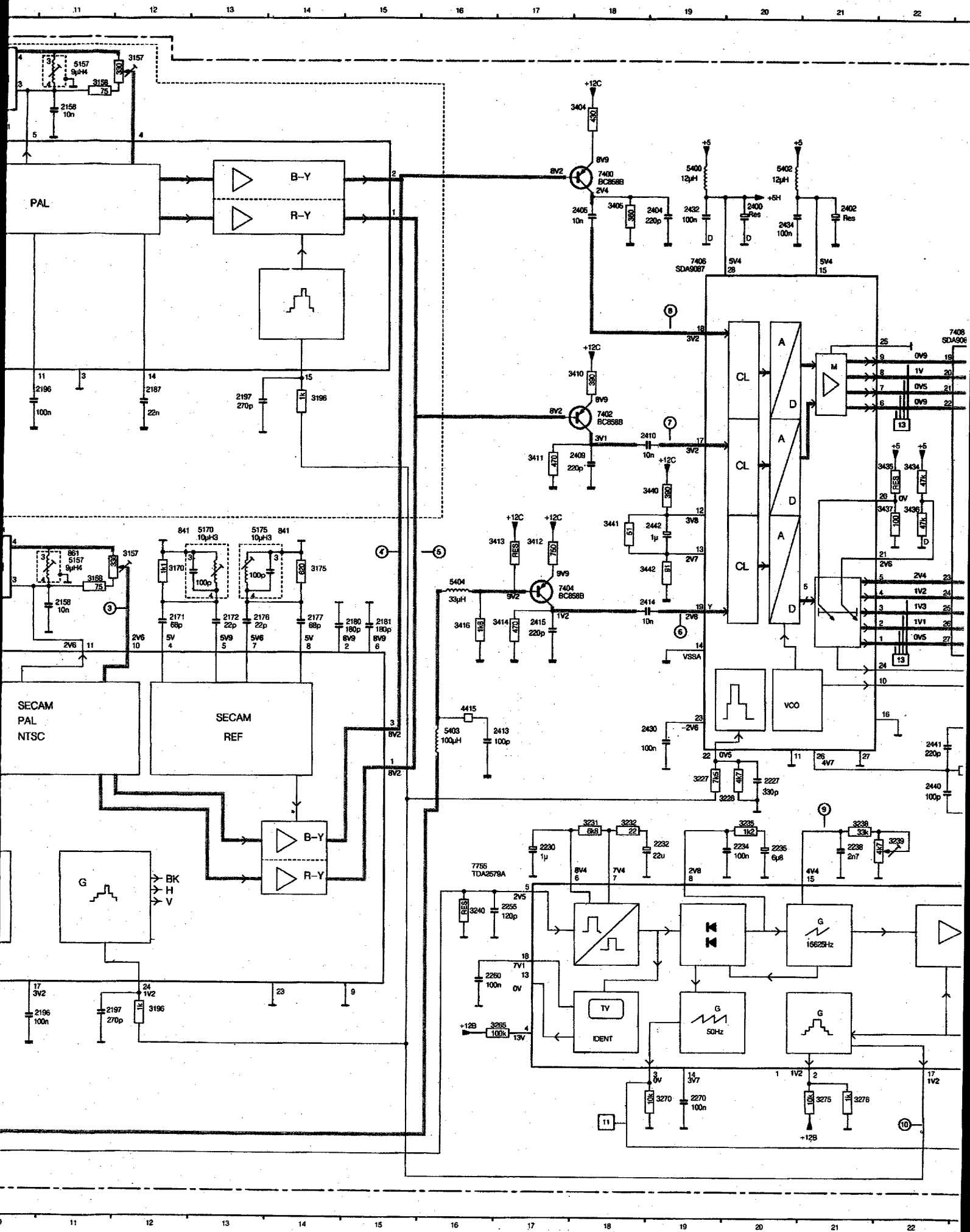


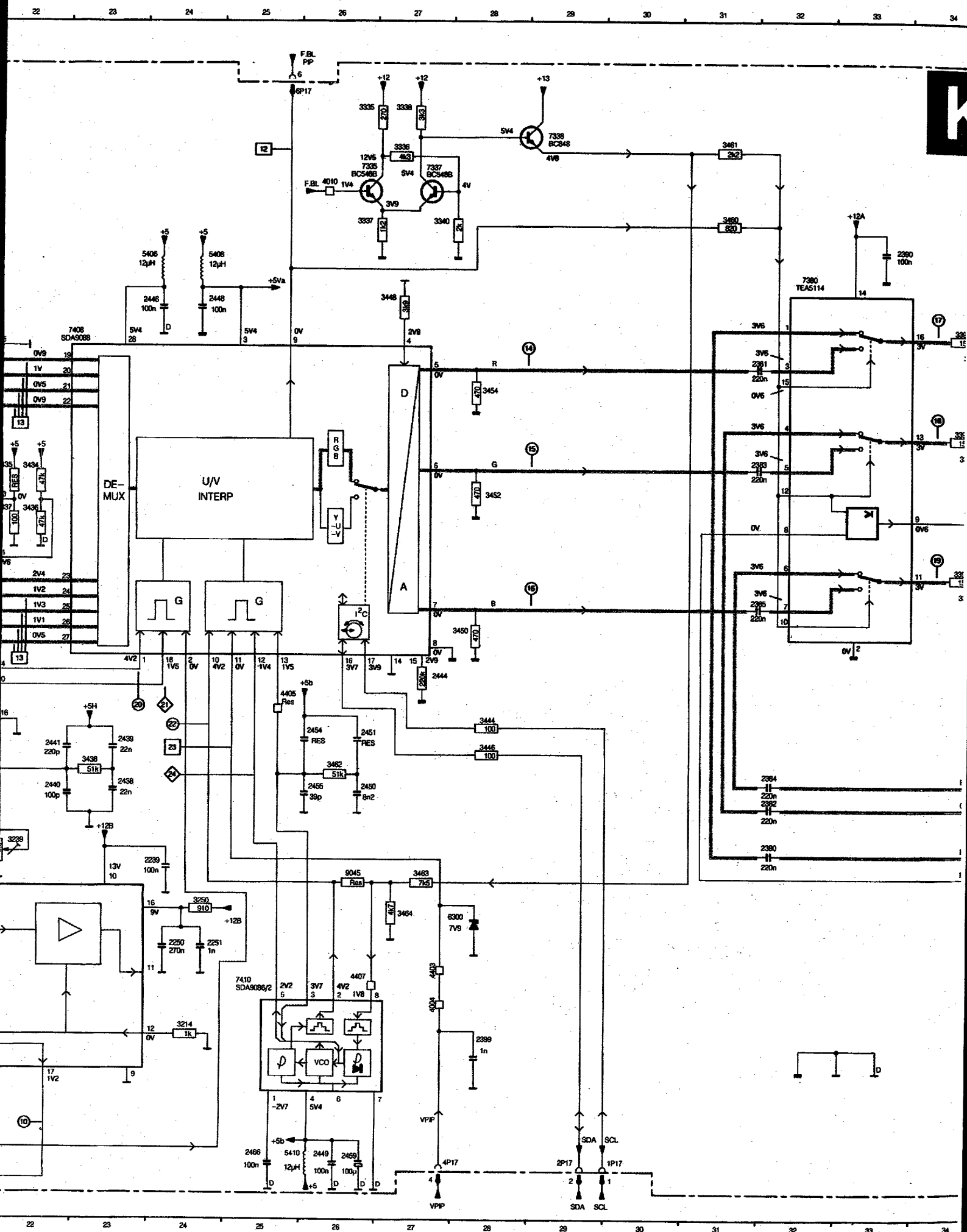
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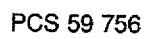
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2172 D2	2446 B2	3345 C1	4201 D1	9028 A
2176 D3	2448 A2	3353 D1	4401 B2	9029 A
2177 D3	2449 B1	3354 D1	4402 B2	9030 A
2180 D2	2450 B2	3380 A3	4403 B2	9031 A
2181 D3	2451 B2	3381 A3	4404 B1	9032 A
2185 C2	2454 B1	3382 A3	4406 A1	9033 A
2187 D2	2455 B2	3383 A3	4407 B1	9034 A
2189 D2	2459 B1	3384 A3	4410 B1	9035 A
2196 C2	2466 B2	3385 A3	4411 B1	9036 A
2197 C3	3103 D1	3388 A2	4415 C3	9037 A
2201 D2	3104 D1	3387 A3	5118 D1	9038 A
2202 C2	3105 D1	3388 A2	5155 C3	9039 A
2211 D2	3106 D2	3390 A1	5157 D3	9040 C
2212 D2	3107 D2	3391 A1	5170 D2	9041 A
2220 C2	3108 D2	3394 A2	5175 D2	9042 A
2222 C2	3155 C3	3395 A1	5190 D2	9043 E
2227 B2	3156 C3	3398 A2	5400 B3	9044 E
2230 C1	3157 D3	3399 A1	5402 C3	9045 C
2232 C1	3158 D3	3404 C3	5403 C3	9046 C
2234 C1	3170 D2	3405 B3	5404 B3	9050 C
2235 C1	3175 D2	3410 B3	5406 A2	P016 A
2238 C2	3195 C2	3411 B3	5408 A2	P017 C
2239 C1	3196 C2	3412 B3	5410 A1	P56 A
2250 C2	3200 D2	3413 B3	6300 B2	P57 A
2251 C1	3201 D2	3414 B3	7103 D1	
2255 C1	3202 D2	3416 B3	7105 D1	
2260 C1	3211 D2	3434 B3	7125 D3	
2270 C2	3212 D2	3435 B3	7126 D2	
2330 B1	3214 C2	3436 B2	7200 C2	
2333 B1	3220 C2	3437 B2	7210 D2	
2340 A1	3221 C3	3438 B3	7233 D1	
2345 C1	3222 D2	3440 C2	7234 D1	
2350 D1	3227 C3	3441 C2	7330 B1	
2351 D1	3228 B2	3442 B2	7333 B1	
2380 A2	3231 C1	3444 C2	7335 B1	
2381 A2	3232 C1	3446 C2	7337 B1	
2382 A2	3233 D1	3448 B2	7338 A1	
2383 A2	3234 D1	3450 A2	7350 D1	
2384 A2	3235 C1	3452 A2	7380 A2	
2385 A2	3238 D1	3454 B2	7381 A3	
2390 A1	3237 D1	3460 A1	7385 A3	
2391 A3	3238 C2	3461 A1	7387 A3	
2395 A3	3239 C2	3462 B2	7400 B3	
2397 A3	3240 C1	3463 B1	7402 B3	
2399 C1	3241 D1	3464 B1	7404 B3	
2400 A3	3242 C1	3465 A2	7405 B2	
2402 C3	3250 C1	3470 C1	7408 A2	

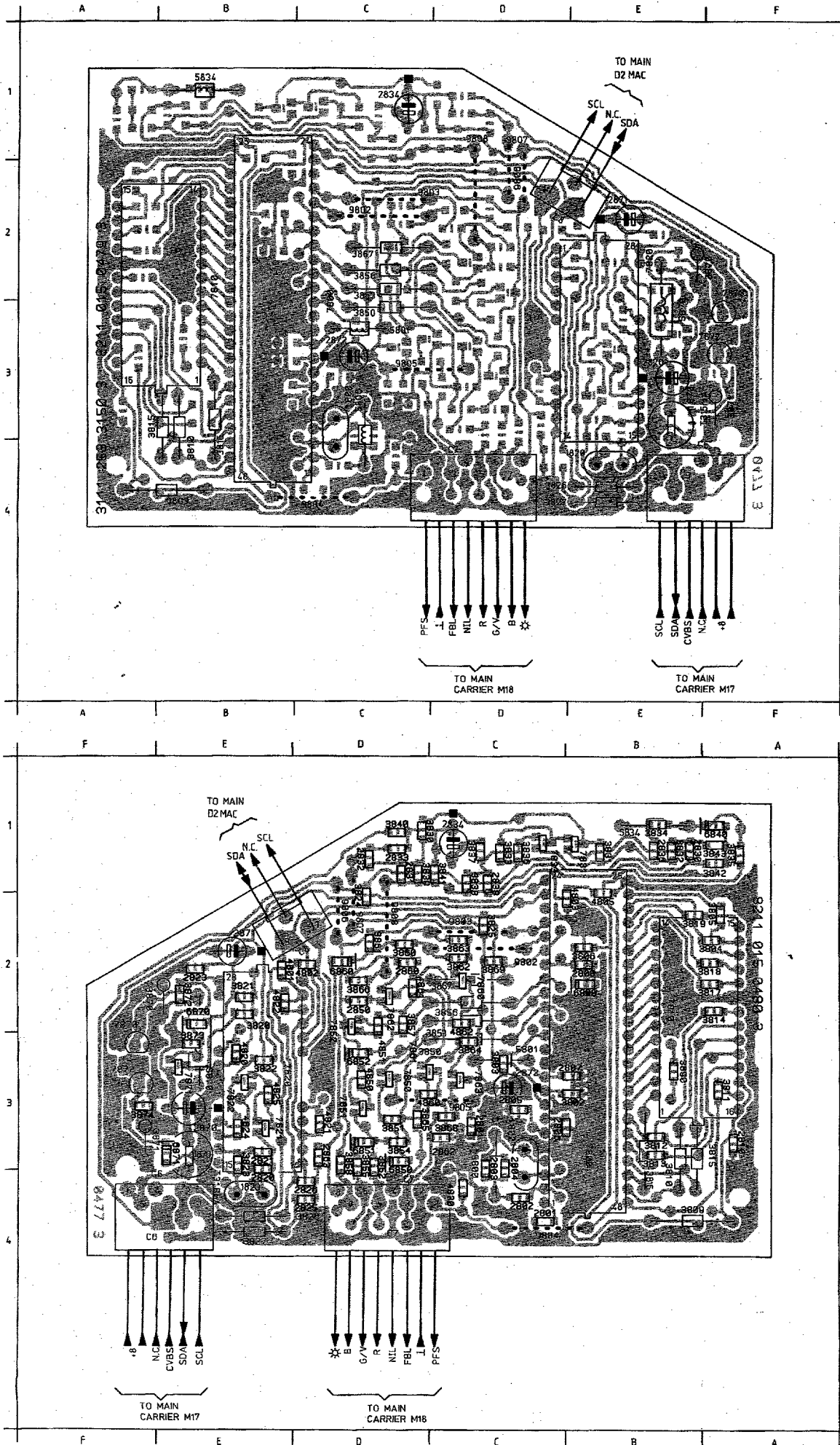






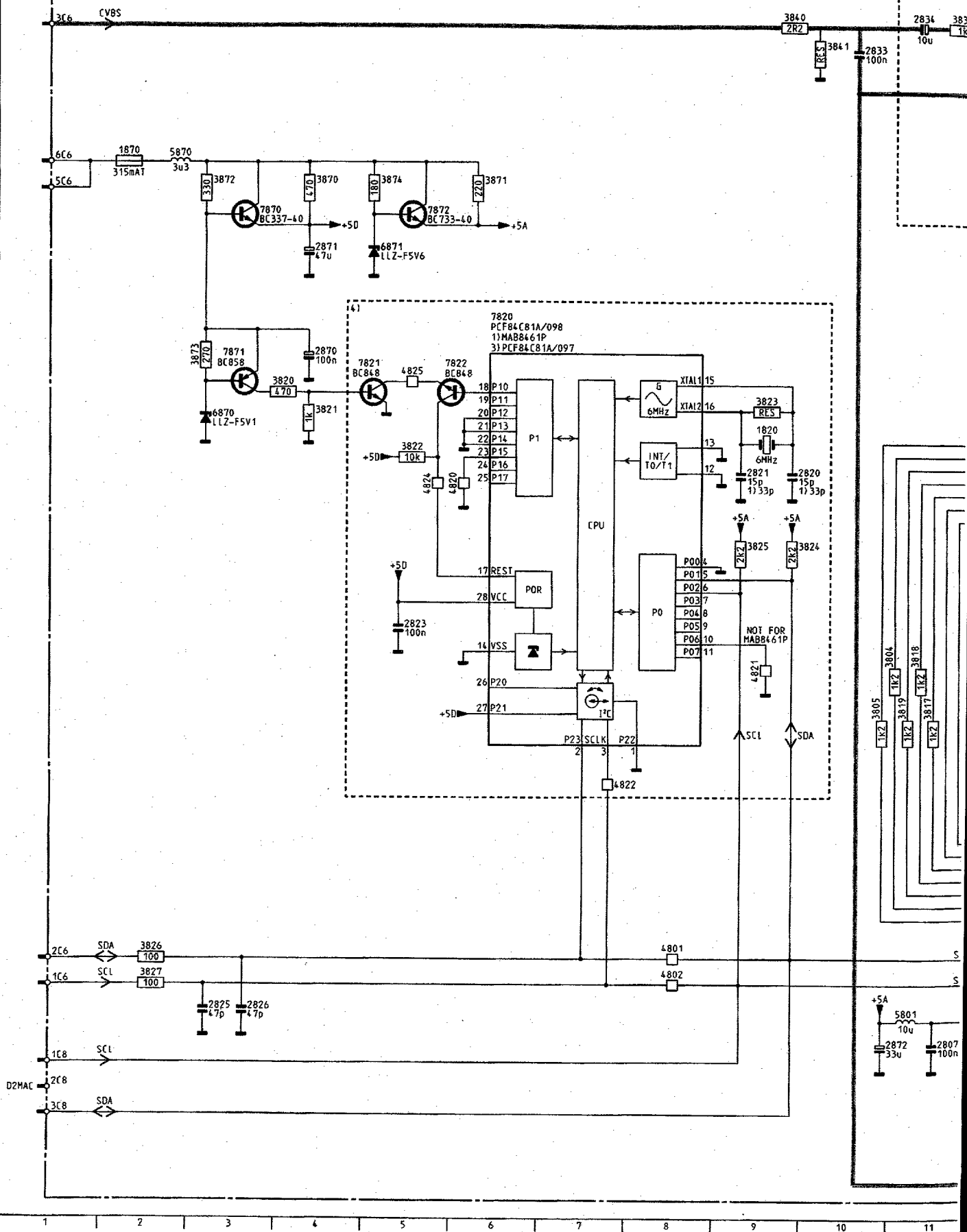






C6 E4	4850 D3
C7 D4	4851 D3
C8 D2	4860 C3
1800 C3	4861 D2
1820 E4	4862 C2
1870 E3	5800 C4
2801 C4	5901 C3
2802 C4	5834 B1
2803 C4	5870 E3
2804 C4	6800 B2
2805 C3	6840 A1
2806 B3	6850 D4
2807 B3	6851 D3
2808 B2	6852 D3
2810 A3	6860 D2
2820 E4	6870 E2
2821 E3	6871 E3
2822 E2	7800 B3
2825 D4	7810 B3
2826 D4	7820 D2
2830 A1	7821 E3
2831 D1	7822 E3
2832 D1	7831 B1
2833 D1	7833 C1
2834 C1	7850 D3
2836 B1	7851 D3
2838 C1	7852 D3
2850 E2	7860 C2
2860 D2	7861 C3
2861 C3	7862 D2
2862 C3	7863 C3
2863 D3	7871 E3
2870 E3	7872 F3
2871 E2	8902 C2
2872 C3	8903 C2
2892 B3	8904 C4
3803 C3	8905 C3
3804 A2	8906 D2
3805 A2	8907 D2
3806 B2	8908 D2

J



CL 16532100/018, JREF
270192

1800	N18	6870	G 3
1820	G 9	6871	E 5
1870	D 2	7800	K14
2801	012	7810	F 12
2802	M18	7820	E 6
2803	N18	7821	F 5
2804	N18	7822	F 5
2805	M17	7831	B15
2806	015	7833	B12
2807	N11	7850	G18
2808	L17	7851	F18
2810	I15	7852	E18
2820	G 9	7860	I18
2821	G 9	7861	I18
2823	I 5	7862	J18
2825	H 3	7863	F19
2826	M 3	7870	D 3
2830	B15	7871	F 3
2831	C15	7872	D 5
2832	C15		
2833	B10		
2834	B11		
2836	C13		
2838	B12		
2850	E19		
2860	J17		
2861	I19		
2862	J20		
2863	E20		
2870	F 4		
2871	E 4		
2872	M10		
3802	015		
3803	M13		
3804	I11		
3805	J10		
3806	K17		
3809	H15		
3810	I14		
3811	J14		
3812	J13		
3813	I12		
3814	J12		
3815	I12		
3816	J12		
3817	J11		
3818	I11		
3819	J11		
3820	F 4		
3821	F 4		
3822	G 5		
3823	F 9		
3824	H 9		
3825	H 9		
3826	M 2		
3827	M 2		
3830	B15		
3831	B15		
3832	C14		
3833	A13		
3834	C13		
3835	D14		
3836	A12		
3837	B11		
3838	B12		
3839	C15		
3840	B 9		
3841	B10		
3842	C14		
3843	D14		
3850	H18		
3851	H18		
3852	H19		
3853	G17		
3854	G18		
3855	F19		
3856	F17		
3857	F18		
3858	F19		
3860	E19		
3861	D19		
3862	H17		
3863	I17		
3864	H18		
3865	I19		
3866	J17		
3867	J18		
3868	J19		
3869	K18		
3870	D 4		
3871	D 6		
3872	D 3		
3873	F 3		
3874	D 5		
4801	M 8		
4802	M 8		
4820	G 6		
4821	I 9		
4822	K 7		
4824	G 5		
4825	F 5		
4850	F18		
4851	F18		
4860	I19		
4861	I18		
4862	J18		
5800	N19		
5801	M11		
5834	C13		
5870	D 2		
6800	L18		
6840	D13		
6850	H19		
6851	G19		
6852	F19		
6860	E19		

Setting conditions

All electrical settings should be made under the following conditions:

- * supply voltage: 220 - 240 V $\pm$ 10%;
- 50 Hz $\pm$ 5%
- * warming-up time $\approx$ 10 minutes
- * the voltages and oscillograms have been measured with regard to tuner earth.
- * measuring probe: $R_i > 10 \text{ M}\Omega$; $C_i < 2.5 \text{ pF}$.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage

Connect a voltmeter over C2631. Using R3635, set the supply voltage to +148V $\pm$ 0.5V for 25" and 28" units or to 95V $\pm$ 0.5V for 21" units.

1.2 Focusing

This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).

Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

- * +145V $\pm$ 5V for 25" and 28" blackline units (protected high-voltage cable)
- * +130V $\pm$ 5V for 28" non-blackline units
- * +118V $\pm$ 5V for 25" non-blackline units
- * +120V $\pm$ 5V for 21" units.

1.4 Horizontal synchronization

Connect pin 5-IC7470 to pin 9-IC7470. Supply an aerial signal and tune the set. Adjust potentiometer 3457 until the picture is straight. Remove the interconnection.

1.5 Horizontal centring

Set using potentiometer 3461.

1.6 Vertical centring

Set using potentiometer 3516.

1.7 Picture height

Set using potentiometer 3504.

1.8 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306.

Set 5301 to maximum amplitude.

Remove the interconnection.

b. Setting for PAL sets (TDA4510)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7305 (TDA4650). Set 5301 to maximum amplitude.

1.9 Chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth. Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

1.10 SECAM demodulators for PAL/SECAM sets (TDA4650)

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306 (TDA4650). Set 5304 to minimum amplitude. Connect the oscilloscope to pin 3-IC7306 (TDA4650). Set 3312 to minimum amplitude.

1.11 White balance

Connect a pattern generator and select a white picture. Switch on the service menu (see section 9) and select "WHITE BALANCE".

Set the value of "Green" to 51, and the Value of "Blue" to 46. In most cases no further adjustments are required.

1.12 Peak white limit

Switch on the service menu (see section 9) and select "WHITE BALANCE".

Set "WHITE LIMIT" to the value:

- 43 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

1.13 Cut-off points of the picture tube

Connect a pattern generator and select a black picture. Switch on the service menu (see section 9) and select "CUT OFF".

Set the value of "Red" to 56, and for "Green" to 16, and for "Blue" to 15. In most cases no further adjustments are required.

1.14 Options

Switch on the service menu and select "OPTION 1" or "OPTION 2".

Switch the options "ON" and "OFF" according to whether the following options are present:

- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.
- "SIXTEEN/NINE" for switching between normal screen size and wide screen size.

MAIN PANEL

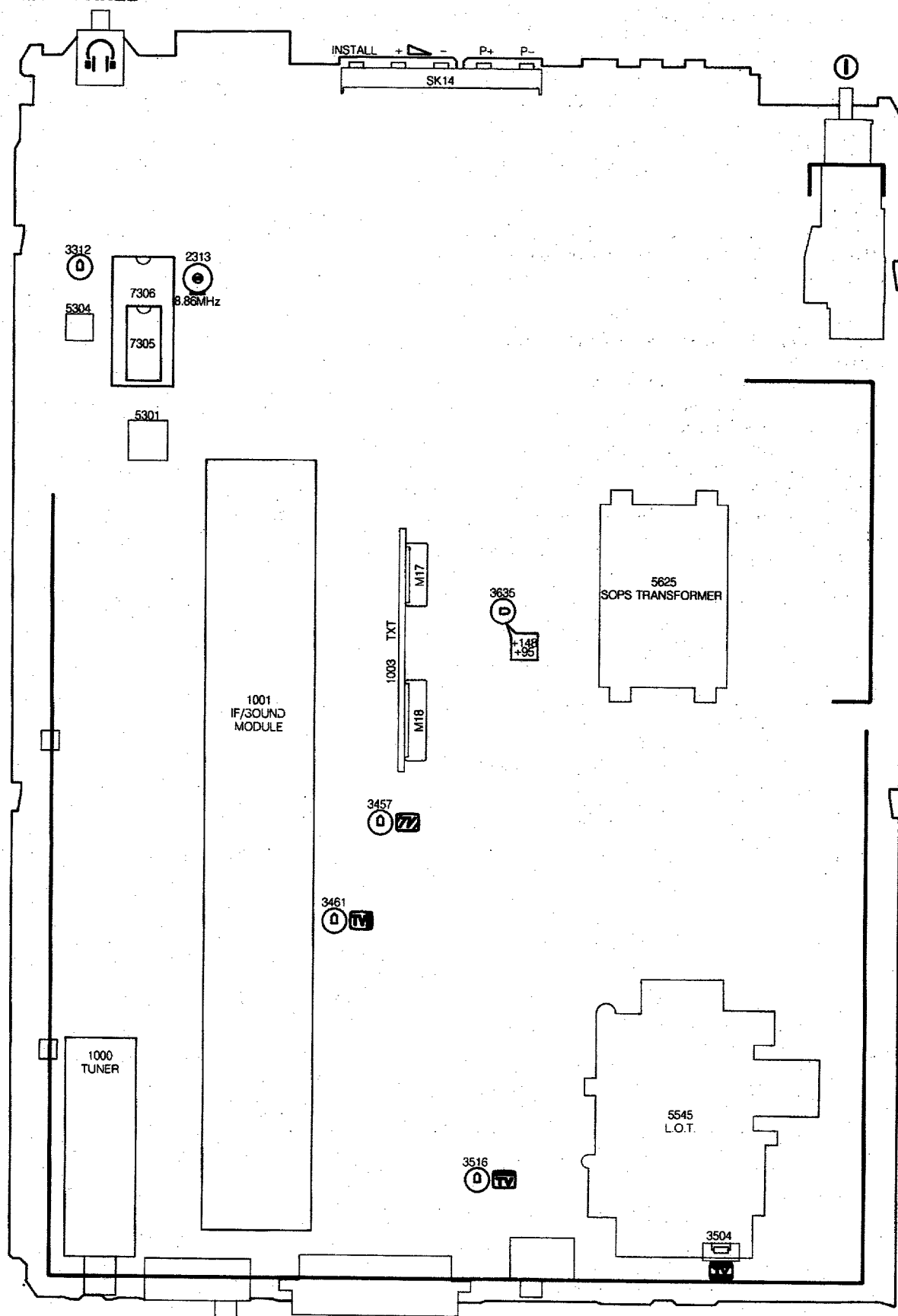


Fig. 7.1

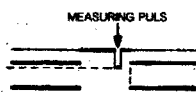


Fig. 7.2

2. MF/sound module adjustment (Fig 7.3)

2.1 The M.F. sound modulator

a. For multi-system France (BGLI).

Stereo + mono:

- Connect a pattern generator (e.g PM 5518) to the tuner and adjust the generator to SECAM L with a frequency of 47.25 MHz (SECAM L'). Adjust L 5080 to minimum picture distortion.

- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

Stereo:

- Connect an oscilloscope to pin 17 of IC 7100 (TDA 3856). Using L 5104 adjust the amplitude of the signal to its minimum value.

b. For Europe (BG) stereo and East-European multi system (BGDK) stereo.

- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

- Connect an oscilloscope to pin 15 of IC 7101 (TDA 3857). Using L 5104 adjust the amplitude of the signal to its minimum value.

c. For NICAM (BGI) stereo.

- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

- Connect an oscilloscope to pin 15 of IC 7100 (TDA 3857). Using L 5103 adjust the amplitude of the signal to its minimum value.

2.2 The FM sound modulator

a. For multi system France (BGLI) + Europe + mono UK.

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz with stereo L = 3kHz and R = 1kHz.

- 5.5 MHz

Connect an oscilloscope to pin 2 of M 24. Using L 5105 adjust the amplitude to its maximum value.

- 5.74 MHz (only for stereo)

Connect an oscilloscope to pin 3 of M 23. Using L 5103 adjust the amplitude to its maximum value.

b. For East-European multi system (BGDK).

- 6.5 MHz.

Adjust the pattern generator to SECAM DK with a frequency of 475.25 MHz.

Connect an oscilloscope to pin 2 of M 24. Using L 5105 adjust the amplitude to its maximum value.

- 5.74 MHz (only for stereo)

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz with stereo L = 3kHz and R = 1kHz.

Connect an oscilloscope to pin 3 of M 23. Using L 5103 adjust the amplitude to its maximum value.

c. For NICAM

- NICAM I.

Adjust the pattern generator to PAL I with a frequency of 475.25 MHz.

Select analogue sound.

Connect an oscilloscope to pin 7 of IC 7100 (TDA 3857). Using L 5102 adjust the amplitude to its maximum value.

- NICAM BG.

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

Select analogue stereo sound with L = 3kHz and R = 1kHz.

* 5.5 MHz.

Connect an oscilloscope to pin 7 of IC 7100 (TDA 3857).

Using L 5102 adjust the amplitude to its maximum value.

* 5.74 MHz.

Connect an oscilloscope to pin 6 of IC 7100 (TDA 3857).

Using L 5101 adjust the amplitude to its maximum value.

2.3 AFC and picture demodulation:

Adjust the pattern generator to the system given in the table below (PAL BGI and SECAM BGDK to 475.25 MHz, SECAM L' to 47.25 MHz).

- Connect an oscilloscope to pin 3 of connector G 29 and using L 5035 or L 5037 (see table) adjust the amplitude to its minimum value.

- Connect an oscilloscope to pin 11 of connector G 29 and using L 5036 or L 5038 (see table) adjust to 2V Dc.

SYSTEM	L5035/L5036	L5037/L5038
Multi French (BGLI) mono/stereo	SECAM L'	SECAM BG/PAL BG
Europe (BG) stereo	PAL BG	--
Europe (BG) mono	--	PAL BG
Multi Eastern- Europe (BGDK) stereo	SECAM K	--
Multi Eastern- Europe (BGDK) mono	--	SECAM K
UK mono	--	PAL I
UK stereo	PAL I	--

2.4

RF-AGC

If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.

2.5

MF-AGC (Multi French (BGLI) system sets)

Connect a pattern generator and select a SECAM-L colour bar signal with a frequency of 475.25 MHz.

Connect an oscilloscope to pin 3 of connector G 29.

Using 3048 adjust the amplitude of the video signal to 1.8 Vpp.

2.6

Stereo matrix (stereo and NICAM units)

Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit completely to the left.

Set 3204 (stereo units) or 3200 (NICAM PAL BG units) to minimum sound reproduction.

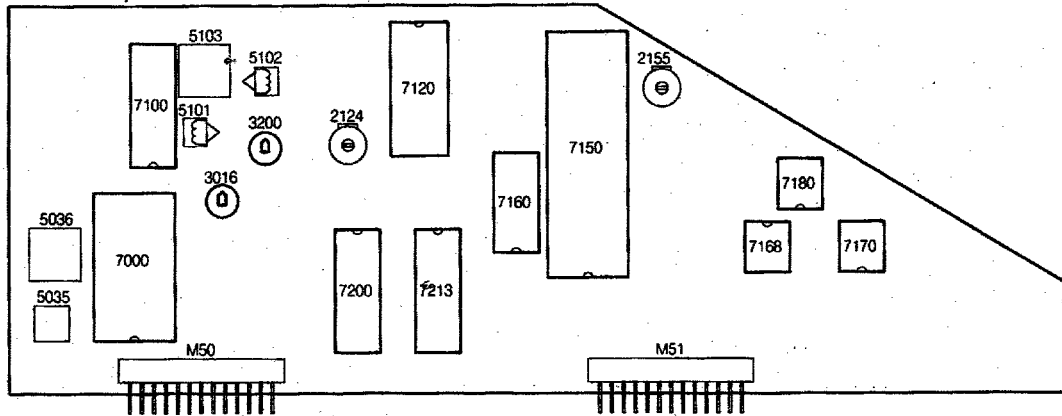
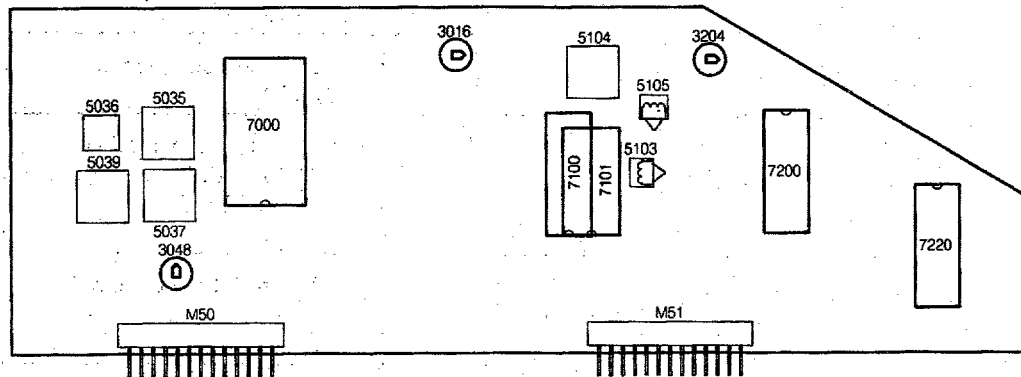
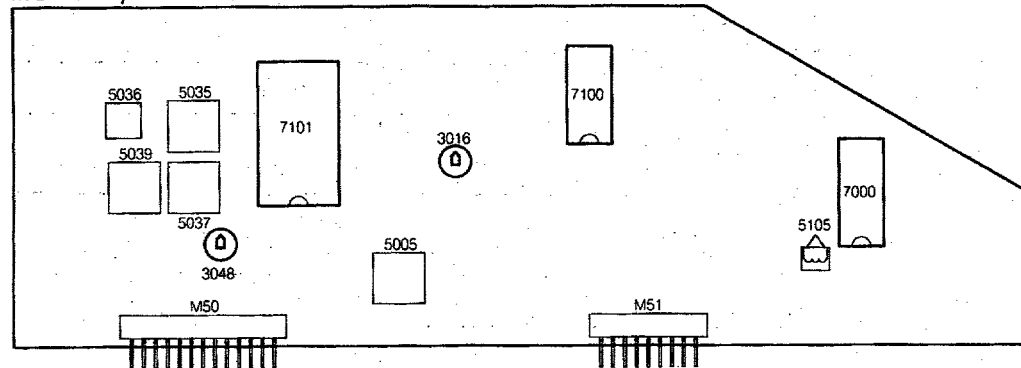
NICAM IF/SOUND MODULE**STEREO IF/SOUND MODULE****MONO IF/SOUND MODULE**

Fig. 7.3

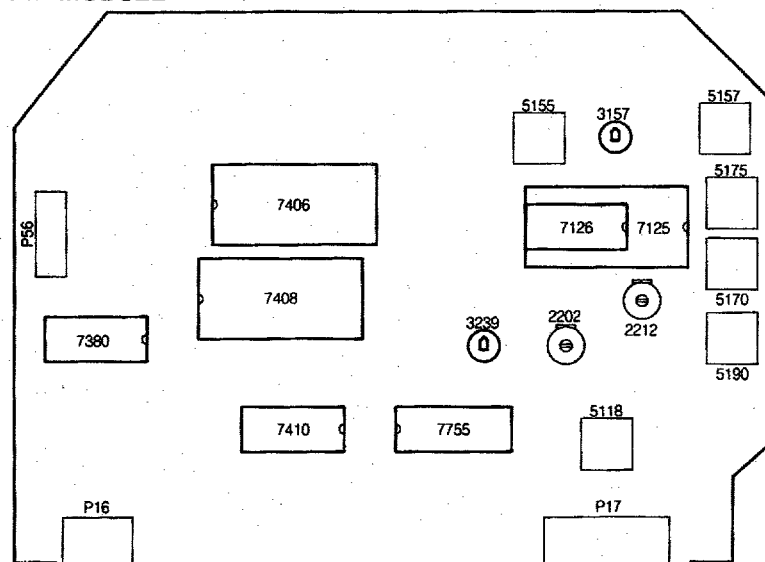
PIP MODULE

Fig. 7.4

3. Adjustments on the PIP module (Fig. 7.4)

Adjustment conditions

Before making each adjustment, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after ≈ 10 min.).

3.1 Horizontal synchronization

Do not supply an aerial or generator signal. Connect pin 28-IC7125 to pin 13-IC7125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth. Measure the frequency at pin 17-IC7755 and using 3239 set it to $15.625 \text{ Hz} \pm 25 \text{ Hz}$. Remove the interconnection.

3.2 Chroma bandpass filter

a. Adjustment for PIP modules with TDA4554

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to $4.286 \text{ MHz}/0.2 \text{ Vpp}$.

Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.

Set 5118 to maximum amplitude.

Remove the interconnection.

b. Adjustment for PIP modules with TDA4510

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to $4.43 \text{ MHz}/0.2 \text{ Vpp}$.

Connect an oscilloscope to pin 9-IC7126.

Set 5118 to maximum amplitude.

3.3 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) or pin 11-IC7126 (TDA4510) to earth. Set 2202 so that the colour of the PIP picture is practically still.

Remove the interconnection.

3.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set 2202 so that the colour of the PIP picture is practically still.

Remove the interconnection.

3.5 Delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.

Set 5155 and 5157 so that the vectors lie in one line (points which are furthest from the origin).

Set the pattern generator to the "DEM" mode.

Set R3157 so that the vectors lie on top of one another in the origin.

3.6 SECAM identification for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM colour bar signal.

Connect pin 27-IC7125 to pin 13-IC7125.

Connect an oscilloscope to pin 21-IC7125.

Set 5190 to minimum DC level.

Remove the interconnection.

3.7 SECAM demodulators for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.

In the same way set 5170, but now measure at pin 3-IC7125.

Remove the interconnection.

4. Adjustments on the picture tube module

4.1 Picture width

Set using potentiometer 3525.

4.2 East/West correction

Set using potentiometer 3521. This setting is only for 25" and 28" units.

1. Servicing of SMDs (Surface Mounted Devices)

1.1 General cautions on handling and storage

- Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
- Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
The capacitance or resistance value of the SMDs may be affected by this.
- Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

- Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:
- While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).
- Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

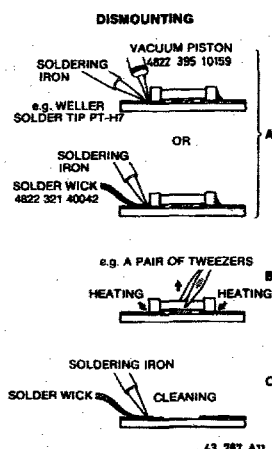


Fig. 8.1

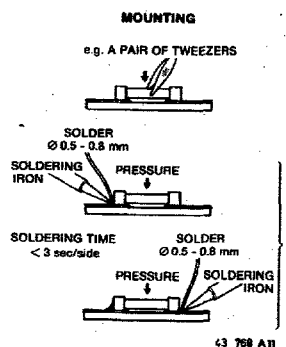


Fig. 8.2

Caution on removal:

- When handling the soldering iron, use suitable pressure and be careful.
- When removing the chip, do not use undue force with the pair of tweezers.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- The chip, once removed, must **never** be reused.

1.3 Attachment of SMDs

- Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).
- Next complete the soldering of the terminals of the component (see Fig. 8.2B).

Caution when attaching SMDs:

- When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.
- Keep the SMD's body in contact with the printed board when soldering.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- Soldering should not be done outside the solder land.
- Soldering flux (of rosin) may be used, but should not be acidic.
- After soldering, let the SMD cool down gradually at room temperature.
- The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 8.3).

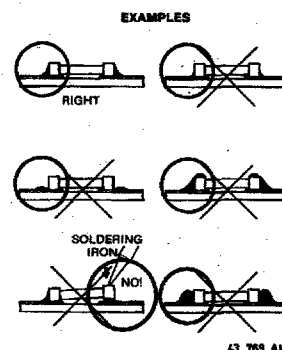


Fig. 8.3

2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings. However, all these values should be checked and adjusted, if necessary.

All options should also be set, the programs installed and personal preference set.

3. Table of error messages

Error Indication	Description	Possible fault
OSD: ERR PIP	I ² C fault PIP module	* +5 on PIP module * IC7406
OSD: ERR TXT	I ² C fault TXT module	* +5 on teletext module * IC7800
OSD: ERR NICAM	I ² C fault IC7160 (NICAM units)	* +5 on IF/sound module * IC7160, C2160, C2161, C2221, C2222 * IC7213
OSD: ERR 8415	I ² C fault IC7200 (stereo and NICAM units)	* +14 on IF/Sound module * IC7200 * IC7220
OSD: ERR 8425	I ² C fault IC7213 (NICAM units) I ² C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ERR EEPROM	I ² C fault IC7710	* IC7710
OSD: ERR TUNER	I ² C fault tuner	* Tuner * TS7003
OSD: ERR CHROMA	I ² C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in μ P	* IC7708
OSD: ERR BUS	I ² C bus blocked	* C2714, C2715

1. Service-Default-Mode

The GR2.2 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

- all sound and picture controls are in the central position (with the exception of the volume which is set to low)
- The set should be tuned to 475.25 MHz system:
- * PAL BG, PAL/SECAM BG or PAL I for single system units (option 2 MULTI SYSTEM "OFF")
- * SECAM L for multisystem units. (option 2 MULT SYSTEM "ON")
- * SECAM DK for sets for Eastern-Europa with option 2 MULTI SYSTEM "ON".
- * PAL BG for sets for Eastern-Europa with option 2 MULTI SYSTEM "OFF".

1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "SER" appears on the screen. The service default mode can only be switched off by switching the unit to standby (⏻). If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.

1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

- Autostore
When operating the **install** key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!
- Service menu
The service menu is activated by first pressing the **⏻** - key and then at the same time the **P +** key on the local control panel. The service menu now appears on the screen. The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the **+** and **-** keys on the remote control. The values and options set are immediately stored in the EEPROM.

Note 1:

If the service menu does not appear on the screen and the autostore function does not react, then the "LOCK" function is probably activated.

If the autostore function only does not react, the hotel mode is activated.

Note 2:

If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, option 2 "MULTI SYSTEM" may be temporarily disabled "OFF".

Note 3:

If a multi-system set for Eastern-Europe in the service default mode is nevertheless to be used with the PAL BG system, option 2 "MULTI SYSTEM" may be temporarily disabled ("OFF").

2. Hotel mode

In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

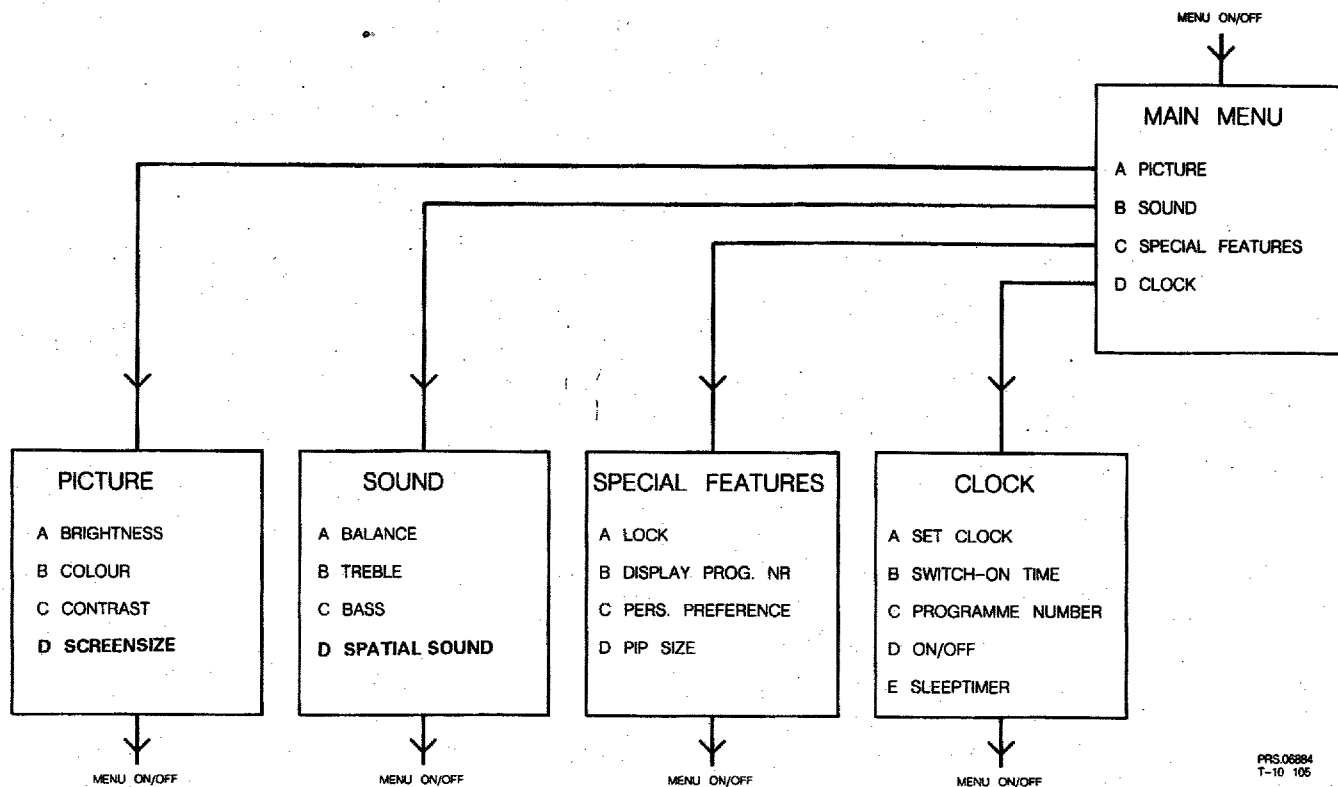
2.1 Switching the hotel mode on and off

Select programme number 38.

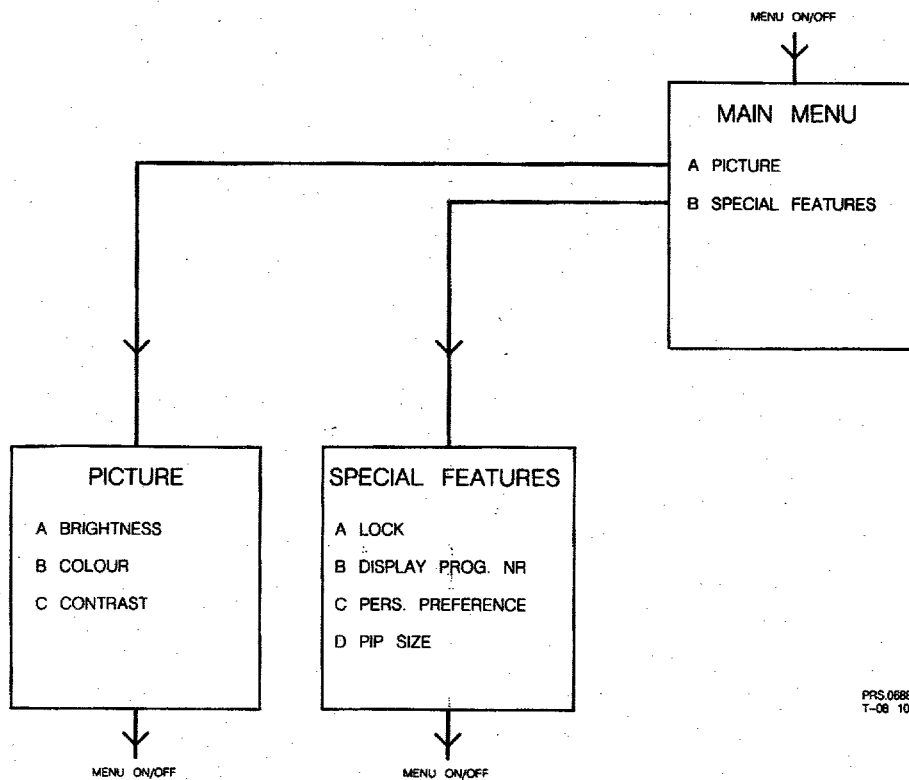
First press **⏻** + and keep this depressed while pressing **P -**.

Survey of menus

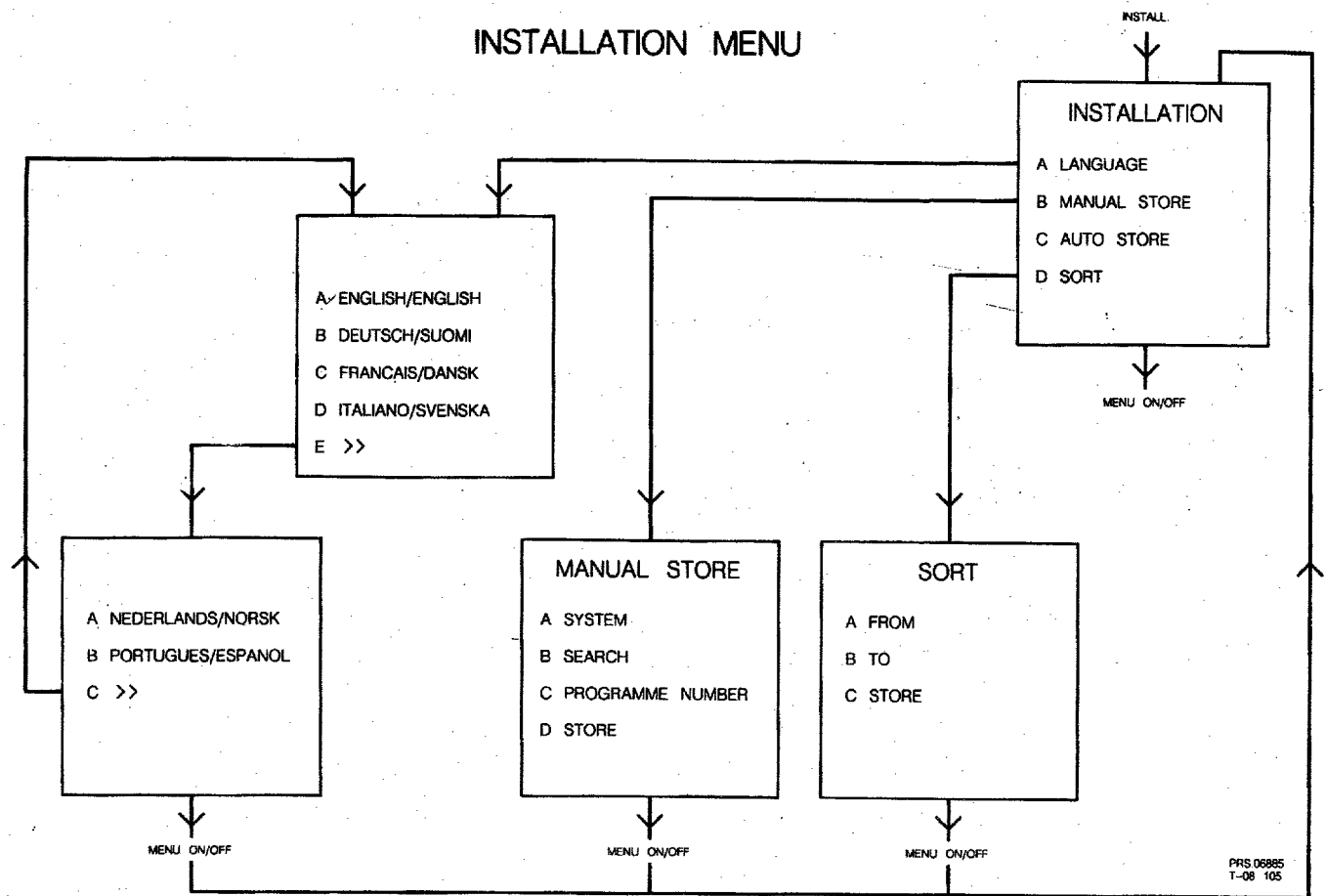
MAIN MENU STEREO



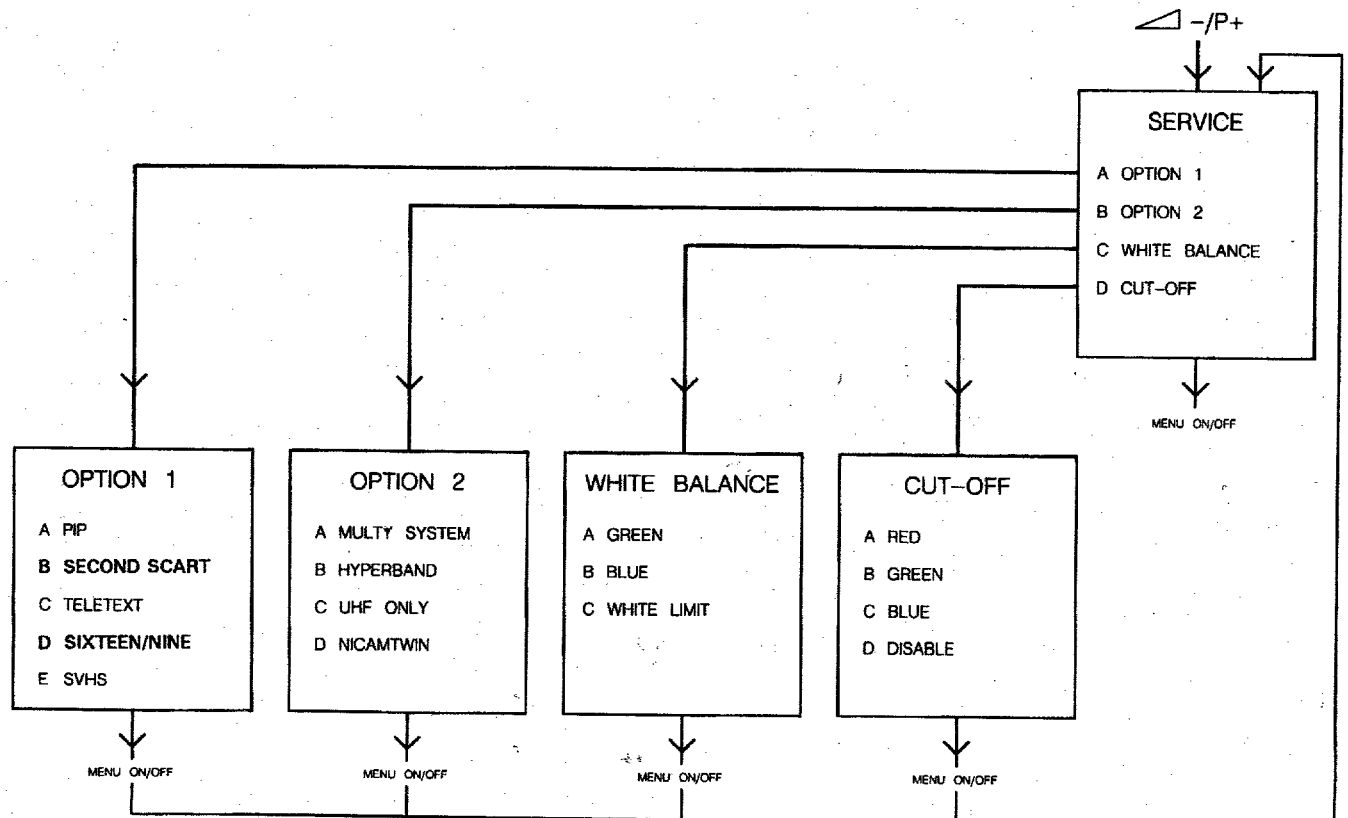
MAIN MENU MONO



INSTALLATION MENU



SERVICE MENU



Main Carrier

Mechanical parts

4822 492 70871 spring wire
4822 404 31174 bracket EURO
module

▲ 4822 256 91766 Spring fix.
0103 4822 466 93111 insulator
0170 4822 466 30395 shield for μ P

0010 4822 265 30389 2p male
0011 4822 265 30389 2p male
0012 4822 265 30351 5p male
0013 4822 265 30378 4p male
0014 4822 290 40295 7p male

0015 4822 265 40421 6p male
0016 4822 264 40207 3p male
0017 4822 267 50591 6p male
0018 4822 264 50148 8p male
0019 4822 264 40239 3p male

0022 4822 267 40666 3p male
0023 4822 264 40207 3p male
0024 4822 264 40207 3p male
0027 4822 265 30351 5p male
0028▲ 4822 265 30877 3p

0029 4822 265 41086 9p male
0032 4822 290 40283 5p male
0035 4822 267 20387 SVHS-connector
0039 4822 267 31014 bushing
0040 4822 267 40878 3p male

0041 4822 276 50354 switch
0042▲ 4822 256 30274 Fuse holder
0047 4822 267 30631 cinch fem. 2p
0049 4822 267 60243 euro connector

4822 267 30546 6p female
4822 267 50637 10p female

Various

1000 4822 210 10436 U944C/IEC
1000 4822 210 50124 UV916E/IEC
1002 4822 526 10405 ferrite bead
1003 4822 212 23667 infra red receiver
1004 4822 526 10405 ferrite bead

1240 4822 071 51602 fuse T1.6A
1242 4822 071 51602 fuse T1.6A
1300 4822 242 70304 8,867MHz
1534 4822 071 53151 fuse T315mA
1559 4822 071 51002 fuse T1A
1580 4822 071 51602 fuse T1.6A
1600 4822 070 32002 fuse T2A
1601 4822 071 52502 fuse T2.5A
1702 4822 242 70392 6MHz



2001 4822 124 40849 330 μ F 20% 16V
2002 4822 122 31797 22nF 10% 63V
2003 4822 122 31947 100nF 20% 63V
2008 4822 122 31765 100pF 5% 50V
2010 4822 124 40435 10 μ F 20% 50V

2231 4822 124 41525 100 μ F 20% 25V
2232 4822 122 32863 22nF 80% 50V
2233 4822 122 32863 22nF 80% 50V
2234 4822 122 32863 22nF 80% 50V
2235 4822 122 32863 22nF 80% 50V

2236 4822 122 31784 4,7nF 10% 50V
2237 4822 122 31947 100nF 20% 63V
2238 4822 122 31784 4,7nF 10% 50V
2238^b 4822 122 32597 6,8nF 10% 63V
2239 4822 122 31947 100nF 20% 63V

2240 4822 124 40214 1000 μ F 20% 25V

2241 4822 122 31947 100nF 20% 63V
2242 4822 124 40214 1000 μ F 20% 25V

2243 4822 122 32863 22nF 80% 50V
2245 4822 122 32863 22nF 80% 50V

2246^b 4822 124 40849 330 μ F 20% 16V
2246 4822 124 41596 22 μ F 20% 50V

2248 4822 124 40849 330 μ F 20% 16V
2249 4822 122 32863 22nF 80% 50V
2250 4822 121 41857 10nF 5% 250V

2251 4822 121 41857 10nF 5% 250V
2252 4822 121 51252 470nF 5% 63V

2254 4822 121 51252 470nF 5% 63V
2255 4822 121 51252 470nF 5% 63V
2256 4822 122 32142 270pF 5% 63V

2257 4822 122 32142 270pF 5% 63V
2262 4822 122 32142 270pF 5% 63V
2263 4822 122 32142 270pF 5% 63V

2264 4822 121 51252 470nF 5% 63V
2265 4822 121 51252 470nF 5% 63V

2266 4822 124 41796 22 μ F 20% 16V
2300 4822 122 32482 22pF 5% 63V

2301 4822 122 31773 560pF 5% 50V
2303 4822 122 32142 270pF 5% 63V
2304⁷ 4822 122 31773 560pF 5% 50V

2304 4822 122 32999 2,2nF 5%
2305 4822 126 10324 33pF 63V

2306 4822 122 31965 220pF 5% 63V
2307 4822 122 31965 220pF 5% 63V
2308 4822 122 32442 10nF 50V

2309 4822 122 32442 10nF 50V
2310 4822 122 32442 10nF 50V
2311 4822 122 33496 100nF 10% 63V

2312 4822 122 32442 10nF 50V
2313 4822 125 50045 20pF

2314 5322 121 42661 330nF 5% 63V
2315^{2,4} 4822 122 32139 12pF 5% 63V

2315^{1,3} 4822 122 32504 15pF 5% 50V
2316 4822 122 31825 27pF 10% 50V
2317 4822 122 33466 82pF 2%

2318 4822 122 32875 100pF 5% 50V
2319 4822 122 31825 27pF 10% 50V
2320^{2,4} 4822 122 31772 47pF 5% 50V

2320^{1,3} 4822 122 31839 82pF 10% 50V
2321 4822 122 31797 22nF 10% 63V

2322 4822 122 31797 22nF 10% 63V
2323 4822 122 32542 47nF 10% 63V

2325 4822 122 32542 47nF 10% 63V
2326^{7,8} 4822 051 10008 jumper
2326 4822 122 33496 100nF 10% 63V

2328^{1,3} 4822 121 41856 22nF 5% 250V
2328^{2,4} 4822 121 42408 220nF 5% 63V

2329^{1,3} 4822 121 41856 22nF 5% 250V
2329^{2,4} 4822 121 42408 220nF 5% 63V

2330 4822 122 31765 100pF 5% 50V
2331 4822 122 31765 100pF 5% 50V

2332 5322 122 31842 330pF 5% 63V
2333 4822 121 42408 220nF 5% 63V

2334 4822 122 31965 220pF 5% 63V
2335 4822 122 31965 220pF 5% 63V

2336 4822 122 31797 22nF 10% 63V
2337 4822 122 31797 22nF 10% 63V

2338 4822 122 31797 22nF 10% 63V
2339 4822 122 33496 100nF 10% 63V

2340 4822 122 31797 22nF 10% 63V
2341 4822 122 31797 22nF 10% 63V

2342 4822 122 33496 100nF 10% 63V
2343 4822 122 33496 100nF 10% 63V

2344 4822 122 33496 100nF 10% 63V
2345 4822 122 31797 22nF 10% 63V

2346 4822 122 31765 100pF 5% 50V
2347 4822 122 31769 18pF 5% 50V

2349 5322 122 31647 1nF 10% 63V
2350 4822 122 31797 22nF 10% 63V

2351 4822 122 31797 22nF 10% 63V
2352 5322 122 31647 1nF 10% 63V

2353 4822 122 33496 100nF 10% 63V
2354 4822 124 40242 1 μ F 20% 63V

2355 4822 124 40849 330 μ F 20% 16V
2356 4822 122 31797 22nF 10% 63V

2357 4822 122 31797 22nF 10% 63V
2358 4822 122 31797 22nF 10% 63V

2359 4822 122 31765 100pF 5% 50V
2360 4822 122 33496 100nF 10% 63V
2361 4822 122 33496 100nF 10% 63V

2362 4822 122 33496 100nF 10% 63V
2363 4822 122 31972 39pF 5% 50V

2365 5322 121 42661 330nF 5% 63V
2366 4822 124 41566 3,3 μ F 20% 50V

2367 4822 124 41578 6,8 μ F 20% 50V
2368 4822 122 32139 12pF 5% 63V

2370 4822 121 42408 220nF 5% 63V
2371 4822 122 31825 27pF 10% 50V

2372 4822 122 31825 27pF 10% 50V
2373 4822 122 31825 27pF 10% 50V

2374 4822 122 31772 47pF 5% 50V
2375 4822 122 31765 100pF 5% 50V

2376 4822 122 31765 100pF 5% 50V
2380 4822 122 31766 120pF 5% 50V
2381 4822 122 31766 120pF 5% 50V

2384 4822 122 31772 47pF 5% 50V
2385 4822 122 31765 100pF 5% 50V

2386 4822 122 33481 1,8nF 15%
2450 4822 124 80059 100 μ F 20% 25V
2451 4822 122 33496 100nF 10% 63V

2455 5322 122 31647 1nF 10% 63V
2455² 5322 122 33446 3,3nF 10% 63V

2456 4822 124 80059 100 μ F 20% 25V
2457 4822 122 33496 100nF 10% 63V

2458 4822 121 42937 2,7nF 1% 250V
2459 4822 122 33496 100nF 10% 63V

2460¹ 4822 122 31644 2,2nF 10% 63V
2460 4822 122 32442 10nF 50V

2461 5322 122 31647 1nF 10% 63V
2462 4822 122 31797 22nF 10% 63V

2464 4822 122 33496 100nF 10% 63V
2465 4822 124 40849 330 μ F 20% 16V

2466 4822 124 22403 10 μ F 20% 16V
2467 4822 122 33496 100nF 10% 63V

2468 4822 124 40244 2,2 μ F 20% 63V
2469 4822 124 41596 22 μ F 20% 50V

2470 4822 122 31772 47pF 5% 50V
2471 5322 121 42661 330nF 5% 63V

2473 5322 121 42661 330nF 5% 63V
2475 4822 122 33496 100nF 10% 63V

2500³ 4822 122 31727 470pF 5% 63V
2500⁴ 4822 122 31771 390pF 5% 50V

2500^{1,2} 4822 122 31965 220pF 5% 63V
2501 4822 122 33481 1,8nF 15%

2502 5322 124 41381 22 μ F 20% 50V
2505 4822 122 32542 47nF 10% 63V

2506³ 4822 124 80062 470 μ F 20% 35V
2506⁴ 4822 124 80063 680 μ F 20% 35V

2506^{1,2} 4822 124 80065 1000 μ F 20% 50V
2507 4822 122 31797 22nF 10% 63V

2509 5322 124 41379 2,2 μ F 20% 50V
2524 4822 124 42187 4,7 μ F 20% 50V

2538 4822 121 43856 4,7nF 5% 250V
2539 4822 124 80057 330 μ F 20% 16V

Main carrier

5% 50V	2545 ¹²	4822 126 10202	1,5nF 10% 2KV	2712	4822 122 31825	27pF 10% 50V	3263	4822 051 10008	jumper
% 50V	2545 ^{3,4}	4822 126 11539	1,2nF 10% 2KV	2713	4822 124 41525	100µF 20% 25V	3263 ^{1b}	4822 051 10562	5k6 2% 0,25W
% 63V	2546 ¹	4822 121 43061	8,2nF 5% 1,6KV	2714	4822 122 31766	120pF 5% 50V	3264	4822 051 10008	jumper
0% 63V	2546 ²	4822 121 43076	11nF 5% 1600V	2715	4822 122 31766	120pF 5% 50V	3264 ^{1b}	4822 051 10562	5k6 2% 0,25W
0% 63V	2546 ³	4822 121 70109	7,5nF 5% 1,6KV	2716	4822 122 33496	100nF 10% 63V	3265	4822 050 21008	1Ω 1% 0,6W
% 63V	2546 ⁴	5322 121 44345	15nF 5% 1,6KV	2717	4822 122 31644	2,2nF 10% 63V	3266	4822 050 21008	1Ω 1% 0,6W
10% 63V	2547 ¹²	4822 121 40488	22nF 10% 400V	2718	4822 122 33496	100nF 10% 63V	3267	4822 051 10103	10k 2% 0,25W
% 63V	2547 ³	5322 121 44151	33nF 10% 400V	2719	5322 121 42386	100nF 5% 63V	3268	4822 051 10103	10k 2% 0,25W
20% 16V	2547 ⁴	5322 121 44219	47nF 10% 400V	2721	4822 122 32442	10nF 50V	3300	4822 051 10822	8k2 2% 0,25W
0% 63V	2549 ¹	4822 121 42073	390nF 10% 400V	2722	4822 122 31947	100nF 20% 63V	3301	4822 051 10272	2k7 2% 0,25W
0% 63V	2549 ²	4822 121 42074	470nF 10% 400V	2781	4822 122 33496	100nF 10% 63V	3302	4822 051 20222	2k2 5% 0,1W
0% 63V	2550 ¹²	4822 121 51527	390nF 5% 250V	2850	4822 124 41506	47µF 20% 16V	3303 ^{7,8}	4822 051 10122	1k2 2% 0,25W
5% 50V	2550 ³	4822 121 51601	470nF 10% 200V	2851	4822 122 31766	120pF 5% 50V	3303	4822 051 10332	3k3 2% 0,25W
10% 63V	2550 ⁴	5322 121 44128	680nF 10% 250V	2852	4822 122 33496	100nF 10% 63V	3304	4822 051 10182	1k8 2% 0,25W
10% 63V	2551	4822 124 80069	1µF 20% 160V	2853	4822 122 31784	4,7nF 10% 50V	3305	4822 051 10431	430Ω 2% 0,25W
10% 63V	2559	4822 124 80059	100µF 20% 25V	2854	4822 122 33496	100nF 10% 63V	3306	4822 051 10103	10k 2% 0,25W
5% 50V	2560 ¹²	4822 121 51408	33nF 10% 250V	2875	5322 121 42386	100nF 5% 63V	3307 ^{2,4}	4822 051 10681	680Ω 2% 0,25W
5% 63V	2570	4822 124 80071	22µF 20% 160V				3307 ^{1,3}	4822 051 10821	820Ω 2% 0,25W
20% 50V	2574	4822 122 10175	2,2nF 10% 50V				3308	4822 051 10331	330Ω 2% 0,25W
20% 50V	2580	4822 124 80061	1000µF 20% 25V	3001 ¹²	4822 052 10399	39Ω 5% 0,33W	3309	4822 051 10331	330Ω 2% 0,25W
5% 63V	2585 ²	4822 124 80058	68µF 20% 25V	3002	4822 051 10223	22k 2% 0,25W	3310	4822 051 10512	5k1 2% 0,25W
5% 63V	2585 ¹	5322 124 21731	10µF 20% 50V	3003	4822 051 20222	2k2 5% 0,1W	3311	4822 051 10391	390Ω 2% 0,25W
10% 50V	2588 ^{1,2}	4822 122 31644	2,2nF 10% 63V	3010	4822 051 10102	1k 2% 0,25W	3312	4822 101 11186	470Ω 30% 0,1W
10% 50V	2588 ⁴	5322 122 31647	1nF 10% 63V	3218	4822 116 52228	680Ω 5% 0,5W	3313 ^{7,8}	4822 051 10103	10k 2% 0,25W
10% 50V	2590	5322 121 42498	680nF 5% 63V	3219	4822 116 52228	680Ω 5% 0,5W	3313	4822 051 10682	6k8 2% 0,25W
5% 50V	2600 ¹²	4822 124 41531	470nF 10% 250V	3220	4822 051 10392	3k9 2% 0,25W	3314	4822 051 10103	10k 2% 0,25W
5% 50V	2605 ¹²	4822 124 80053	220µF 20% 385V	3221	4822 050 11002	1k 1% 0,4W	3318	4822 051 10472	4k7 2% 0,25W
5% 50V	2605 ^{3,4}	4822 124 80134	150µF 20% 400V	3222	4822 116 52234	100k 5% 0,5W	3323	4822 116 52272	330k 5% 0,5W
5% 50V	2607 ¹²	4822 121 51469	1nF 400V	3224	4822 116 52256	2k2 5% 0,5W	3325	4822 051 10271	270Ω 2% 0,25W
5% 50V	2611	5322 124 41299	68µF 20% 25V	3225	4822 051 10272	2k7 2% 0,25W	3326	4822 051 10271	270Ω 2% 0,25W
5% 50V	2617 ^{3,4}	4822 121 51252	470nF 5% 63V	3226	4822 051 10333	33k 2% 0,25W	3327	4822 050 11202	1k2 1% 0,4W
15%	2617 ^{1,2}	4822 121 51319	1µF 10% 63V	3227	4822 051 10333	33k 2% 0,25W	3328	4822 051 10473	47k 2% 0,25W
20% 25V	2620	5322 121 42465	68nF 5% 63V	3228	4822 051 10151	150Ω 2% 0,25W	3330	4822 051 10106	10Ω 2% 0,25W
10% 63V	2625	4822 122 40593	1nF 10% 1KV	3229	4822 051 10562	5k6 2% 0,25W	3331	4822 051 10109	10Ω 2% 0,25W
0% 63V	2628	4822 122 40594	470pF 10% 1KV	3230	4822 116 52257	22k 5% 0,5W	3332	4822 050 23901	390Ω 1% 0,6W
10% 63V	2629	4822 122 31784	4,7nF 10% 50V	3231	4822 051 10472	4k7 2% 0,25W	3334	4822 050 21809	18Ω 1% 0,6W
10% 63V	2630 ^{3,4}	4822 124 23418	47µF 200V	3232 ^{1b}	4822 051 10008	jumper	3335	4822 116 52184	18Ω 5% 0,5W
20% 25V	2630 ^{1,2}	4822 124 80055	100µF 10% 160V	3232	4822 051 10101	100Ω 2% 0,25W	3336 ¹²	4822 052 10189	18Ω 5% 0,33W
10% 63V	2631 ^{3,4}	4822 124 23418	47µF 200V	3233	4822 051 10103	10k 2% 0,25W	3336 ^{1,3}	4822 052 10279	27Ω 5% 0,33W
1% 250V	2631 ^{1,2}	4822 124 80055	100µF 10% 160V	3234	4822 051 10103	10k 2% 0,25W	3337 ^{2,4}	4822 052 10189	18Ω 5% 0,33W
10% 63V	2632	4822 126 11382	1nF 10% 1KV	3234	4822 051 10223	22k 2% 0,25W	3337 ^{1,3}	4822 052 10279	27Ω 5% 0,33W
10% 63V	2636	4822 122 31644	2,2nF 10% 63V	3235	4822 051 10223	22k 2% 0,25W	3338	4822 050 11002	1k 1% 0,4W
50V	2640	4822 124 80061	1000µF 20% 25V	3236	4822 051 10122	1k2 2% 0,25W	3339	4822 116 52243	1k5 5% 0,5W
0% 63V	2641	4822 124 80061	1000µF 20% 25V	3237	4822 051 10122	1k2 2% 0,25W	3340	4822 050 11002	1k 1% 0,4W
10% 63V	2646	4822 124 80054	15µF 20% 50V	3237 ^{1b}	4822 051 10562	5k6 2% 0,25W	3341	4822 051 10103	10k 2% 0,25W
F 10% 63V	2649	4822 122 33496	100nF 10% 63V	3238	4822 051 10122	1k2 2% 0,25W	3342 ^{2,4}	4822 051 10102	1k 2% 0,25W
F 20% 16V	2650	4822 122 33496	100nF 10% 63V	3239	4822 116 52207	1k2 5% 0,5W	3342 ^{1,3}	4822 051 10122	1k2 2% 0,25W
F 20% 16V	2652	5322 122 32331	1nF 10% 100V	3240 ¹²	4822 052 10828	8Ω 5% 0,33W	3343	4822 051 10104	100k 2% 0,25W
F 10% 63V	2653	5322 122 32331	1nF 10% 100V	3241 ¹²	4822 052 10828	8Ω 5% 0,33W	3344	4822 051 10103	10k 2% 0,25W
F 20% 63V	2658	5322 122 32838	82nF 10% 63V	3242	4822 051 10333	33k 2% 0,25W	3347	4822 116 52219	330Ω 5% 0,5W
F 20% 50V	2660	4822 124 80061	1000µF 20% 25V	3243	4822 051 10333	33k 2% 0,25W	3348	4822 116 52219	330Ω 5% 0,5W
F 5% 50V	2661	4822 124 41506	47µF 20% 16V	3244	4822 051 10103	10k 2% 0,25W	3349	4822 116 52219	330Ω 5% 0,5W
F 5% 63V	2662 ^{3,4}	4822 122 31965	220pF 5% 63V	3245	4822 051 10103	10k 2% 0,25W	3350	4822 050 11002	1k 1% 0,4W
F 5% 63V	2662 ^{1,2}	4822 122 32142	270pF 5% 63V	3246	4822 050 23301	330Ω 1% 0,6W	3351	4822 116 52263	2k7 5% 0,5W
F 10% 63V	2663 ^{3,4}	4822 122 31765	100pF 5% 50V	3247	4822 116 52175	100Ω 5% 0,5W	3352	4822 116 52263	2k7 5% 0,5W
F 5% 63V	2663 ^{1,2}	4822 122 31839	82pF 10% 50V	3248	4822 050 23301	330Ω 1% 0,6W	3353	4822 116 52263	2k7 5% 0,5W
F 5% 50V	2664	5322 124 41379	2,2µF 20% 50V	3249	4822 116 52175	100Ω 5% 0,5W	3354	4822 051 10221	220Ω 2% 0,25W
F 5% 63V	2670	4822 122 31766	120pF 5% 50V	3249 ^{1b}	4822 116 52193	39Ω 5% 0,5W	3357	4822 051 10102	1k 2% 0,25W
15%	2671	4822 121 42408	220nF 5% 63V	3250	4822 050 11002	1k 1% 0,4W	3358	4822 051 10331	330Ω 2% 0,25W
20% 50V	2675 ^{3,4}	4822 124 80064	680µF 20% 50V	3251	4822 050 11002	1k 1% 0,4W	3359	4822 051 10331	330Ω 2% 0,25W
10% 63V	2675 ^{1,2}	4822 124 80065	1000µF 20% 50V	3253	4822 116 52211	150Ω 5% 0,5W	3360	4822 051 10102	1k 2% 0,25W
20% 35V	2676	5322 122 32331	1nF 10% 100V	3254	4822 116 52211	150Ω 5% 0,5W	3361	4822 051 10102	1k 2% 0,25W
F 20% 35V	2704	4822 122 32542	47nF 10% 63V	3255	4822 050 11002	1k 1% 0,4W	3362	4822 051 10472	4k7 2% 0,25W
F 20% 50V	2705	4822 122 31766	120pF 5% 50V	3256	4822 050 11002	1k 1% 0,4W	3365	4822 116 52272	330k 5% 0,5W
10% 63V	2706	5322 124 41299	68µF 20% 25V	3257	4822 051 10334	330k 2% 0,25W	3366	4822 116 52297	68k 5% 0,5W
20% 50V	2707	4822 122 32442	10nF 50V	3258	4822 051 10334	330k 2% 0,25W	3367	4822 116 52175	100Ω 5% 0,5W
20% 50V	2708	4822 122 31766	120pF 5% 50V	3259	4822 051 10334	330k 2% 0,25W	3368	4822 116 52175	100Ω 5% 0,5W
5% 250V	2709	4822 122 32507	6,8pF 5% 50V	3260	4822 051 10334	330k 2% 0,25W	3369	4822 116 52175	100Ω 5% 0,5W
F 20% 16V	2710	4822 122 32507	6,8pF 5% 50V	3261	4822 116 80747	75Ω 5% 0,125W	3370	4822 051 10472	4k7 2% 0,25W
	2711	4822 122 31825	27pF 10% 50V	3262	4822 116 80747	75Ω 5% 0,125W	3371	4822 051 10332	3k3 2% 0,25W

Main carrier

3372	4822 051 10472	4k7 2% 0,25W	3543	4822 051 10101	100Ω 2% 0,25W	3701	4822 051 10273	27k 2% 0,25W
3373	4822 051 10102	1k 2% 0,25W	3545 ²	4822 111 70178	120Ω 5% 5W	3702	4822 051 10153	15k 2% 0,25W
3374	4822 050 22702	27k 1% 0,6W	3545 ¹	4822 113 80565	180Ω 5% 5W	3707	4822 051 10182	1k8 2% 0,25W
3375	4822 051 10331	330Ω 2% 0,25W	3545 ^{3A}	4822 116 83686	680Ω 5% 5W	3718	4822 116 52215	220Ω 5% 0,5W
3376	4822 051 10331	330Ω 2% 0,25W	3549	4822 116 52251	18k 5% 0,5W	3719	4822 116 52215	220Ω 5% 0,5W
3380	4822 051 10101	100Ω 2% 0,25W	3550	4822 116 52251	18k 5% 0,5W	3720	4822 116 52215	220Ω 5% 0,5W
3381	4822 051 10101	100Ω 2% 0,25W	3551	4822 050 25601	560Ω 1% 0,6W	3721	4822 051 10103	10k 2% 0,25W
3394	4822 051 10683	68k 2% 0,25W	3552	4822 050 25601	560Ω 1% 0,6W	3722	4822 051 10103	10k 2% 0,25W
3395	4822 051 10683	68k 2% 0,25W	3553 ^A	4822 052 10561	560Ω 5% 0,33W	3723	4822 051 10103	10k 2% 0,25W
3450	4822 116 52238	12k 5% 0,5W	3560 ²	4822 116 52247	16k 5% 0,5W	3724	4822 051 10103	10k 2% 0,25W
3451	4822 116 52175	100Ω 5% 0,5W	3560 ¹	4822 116 52254	20k 5% 0,5W	3725	4822 051 10103	10k 2% 0,25W
3452	4822 116 52175	100Ω 5% 0,5W	3560 ⁴	4822 116 52274	36k 5% 0,5W	3726	4822 051 10103	10k 2% 0,25W
3455	4822 051 10102	1k 2% 0,25W	3560 ³	4822 116 52277	39k 5% 0,5W	3727	4822 116 52175	100Ω 5% 0,5W
3456	4822 051 10682	68k 2% 0,25W	3570 ^A	4822 052 10688	608 5% 0,33W	3728	4822 116 52175	100Ω 5% 0,5W
3457	4822 101 11191	10k 30% LIN	3582	4822 050 25601	560Ω 1% 0,6W	3729	4822 051 10911	910Ω 2% 0,25W
3458	4822 051 10303	30k 2% 0,25W	3585 ^A	4822 052 10159	15Ω 5% 0,33W	3730	4822 051 10221	220Ω 2% 0,25W
3459	4822 051 10823	82k 2% 0,25W	3588 ^A	4822 052 10561	560Ω 5% 0,33W	3732 ^{1,2}	4822 053 11103	10k 5% 2W
3460	4822 051 10333	33k 2% 0,25W	3589	4822 050 21502	1k5 1% 0,6W	3732 ^{3A}	4822 053 11332	3k3 5% 2W
3461	4822 101 11193	470k 30% 0.1W	3590	4822 116 52234	100k 5% 0,5W	3733 ^{3A}	4822 050 23902	3k9 1% 0,6W
3463	4822 116 52251	18k 5% 0,5W	3591	4822 051 10474	470k 2% 0,25W	3733 ^{1,2}	4822 116 52283	4k7 5% 0,5W
3464	4822 051 10123	12k 2% 0,25W	3592	4822 051 10681	680Ω 2% 0,25W	3734 ^{3A}	4822 050 23902	3k9 1% 0,6W
3465	4822 051 10394	390k 2% 0,25W	3603 ^A	4822 053 21915	9M1 5% 0,5W	3734 ^{1,2}	4822 116 52283	4k7 5% 0,5W
3466	4822 051 10681	680Ω 2% 0,25W	3604	4822 113 80593	1,5Ω 10% 5W	3736	4822 116 52175	100Ω 5% 0,5W
3467 ^{3A}	4822 050 21205	1M2 1% 0,6W	3605 ^A	4822 052 10102	1k 5% 0,33W	3737	4822 050 11002	1k 1% 0,4W
3467 ^{1,2}	4822 116 80692	2M2 5% 0,2W	3606 ^A	4822 052 10102	1k 5% 0,33W	3741	4822 051 10123	12k 2% 0,25W
3468	4822 051 10682	68k 2% 0,25W	3610 ^A ^{1,2}	4822 052 10159	15Ω 5% 0,33W	3742	4822 051 10332	3k3 2% 0,25W
3469	4822 051 10229	22Ω 2% 0,25W	3610 ^A ^{3A}	4822 052 10688	608 5% 0,33W	3743	4822 051 10472	4k7 2% 0,25W
3470	4822 116 52231	820Ω 5% 0,5W	3617	4822 116 52213	180Ω 5% 0,5W	3747	4822 051 10273	27k 2% 0,25W
3471 ^{1,2}	4822 116 52239	120k 5% 0,5W	3619	4822 116 52182	15Ω 5% 0,5W	3748	4822 051 10273	27k 2% 0,25W
3471 ⁴	4822 116 52245	150k 5% 0,5W	3620	4822 053 12121	120Ω 5% 3W	3749	4822 051 10273	27k 2% 0,25W
3471 ³	4822 116 52258	220k 5% 0,5W	3621 ^{1,2}	4822 053 12279	27Ω 5% 3W	3750	4822 051 10273	27k 2% 0,25W
3473	4822 116 52265	270k 5% 0,5W	3621 ^{3A}	4822 053 12479	47Ω 5% 3W	3751	4822 051 10153	15k 2% 0,25W
3474	4822 051 10392	3k9 2% 0,25W	3622	4822 053 12479	47Ω 5% 3W	3752	4822 116 52244	15k 5% 0,5W
3475	4822 051 10184	180k 2% 0,25W	3624	4822 053 10334	330k 5% 1W	3753	4822 051 10153	15k 2% 0,25W
3476	4822 051 10683	68k 2% 0,25W	3625	4822 116 52292	560k 5% 0,5W	3754	4822 051 10153	15k 2% 0,25W
3477	4822 051 10474	470k 2% 0,25W	3626	4822 113 80565	180Ω 5% 5W	3755 ^{1b}	4822 051 10008	jumper
3478	4822 051 10393	39k 2% 0,25W	3628	4822 051 10334	330k 2% 0,25W	3755	4822 051 10101	100Ω 2% 0,25W
3483	4822 051 10479	47Ω 2% 0,25W	3629	4822 051 10682	68k 2% 0,25W	3756	4822 051 10101	100Ω 2% 0,25W
3485	4822 051 20222	2k2 5% 0,1W	3631 ^{3A}	4822 050 21204	120k 1% 0,6W	3757	4822 051 20222	2k2 5% 0,1W
3501 ³	4822 051 10101	100Ω 2% 0,25W	3631 ^{1,2}	4822 050 22204	220k 1% 0,6W	3758	4822 051 10392	3k9 2% 0,25W
3501 ^{1,2}	4822 051 10759	75Ω 2% 0,25W	3634 ^{3A}	4822 116 52263	2k7 5% 0,5W	3759	4822 116 52175	100Ω 5% 0,5W
3501 ⁴	4822 051 10829	82Ω 2% 0,25W	3634 ^{1,2}	4822 116 52269	3k3 5% 0,5W	3768	4822 051 10105	1M 5% 0,25W
3502 ^{1,2}	4822 053 10122	1k2 5% 1W	3635	4822 101 11187	1k 30% LIN 0,1W	3770	4822 051 10473	47k 2% 0,25W
3502 ^{3A}	4822 053 10272	2k7 5% 1W	3636	4822 051 10224	220k 2% 0,25W	3771	4822 116 52251	18k 5% 0,5W
3503 ^A ^{1,2}	4822 052 10128	1Ω 5% 0,33W	3637	4822 116 52175	100Ω 5% 0,5W	3772	4822 116 52276	3k9 5% 0,5W
3503 ^A ^{3A}	4822 052 10478	4Ω 5% 0,33W	3647 ^{1b}	4822 050 23303	33k 1% 0,6W	3775	4822 051 10101	100Ω 2% 0,25W
3504	4822 100 11684	100Ω 10% 0.1W	3647	4822 050 23603	36k 1% 0,6W	3776	4822 051 10562	5k6 2% 0,25W
3505	4822 051 10471	470Ω 2% 0,25W	3648	4822 051 10273	27k 2% 0,25W	3777	4822 116 52264	27k 5% 0,5W
3506	4822 116 52242	130k 5% 0,5W	3649	4822 050 23309	33Ω 1% 0,6W	3778	4822 116 52291	56k 5% 0,5W
3507 ^{1,2}	4822 116 52233	10k 5% 0,5W	3658 ^A	4822 052 10688	608 5% 0,33W	3779	4822 116 52233	10k 5% 0,5W
3507 ^{3A}	4822 116 52238	12k 5% 0,5W	3659	4822 051 10181	180Ω 2% 0,25W	3780	4822 051 10103	10k 2% 0,25W
3508	4822 051 10228	2Ω 5% 0,25W	3660	4822 051 10101	100Ω 2% 0,25W	3781	4822 051 10472	4k7 2% 0,25W
3509	4822 051 10228	2Ω 5% 0,25W	3661	4822 051 10361	360Ω 2% 0,25W	3849	4822 116 52218	300Ω 5% 0,5W
3510	4822 051 10228	2Ω 5% 0,25W	3662	4822 051 10221	220Ω 2% 0,25W	3850	4822 116 52189	30Ω 5% 0,5W
3511	4822 051 10228	2Ω 5% 0,25W	3663	4822 051 10562	5k6 2% 0,25W	3851	4822 116 80747	75Ω 5% 0,125W
3513	4822 050 25601	560Ω 1% 0,6W	3664	4822 051 10272	2k7 2% 0,25W	3852	4822 116 80747	75Ω 5% 0,125W
3514	4822 051 10182	1k8 2% 0,25W	3665	4822 051 10103	10k 2% 0,25W	3853	4822 116 80747	75Ω 5% 0,125W
3515	4822 051 10228	2Ω 5% 0,25W	3666	4822 051 10102	1k 2% 0,25W	3854	4822 116 80747	75Ω 5% 0,125W
3516	4822 101 11192	22k 30% 0.1W	3667	4822 051 10361	360Ω 2% 0,25W	3855	4822 116 52201	75Ω 5% 0,5W
3517	4822 051 10228	2Ω 5% 0,25W	3668	4822 051 10102	1k 2% 0,25W	3856	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10228	2Ω 5% 0,25W	3669	4822 051 10102	1k 2% 0,25W	3857	4822 051 10331	330Ω 2% 0,25W
3523	4822 051 10228	2Ω 5% 0,25W	3670	4822 051 10303	30k 2% 0,25W	3858	4822 051 10331	330Ω 2% 0,25W
3529	4822 051 10228	2Ω 5% 0,25W	3671	4822 050 11002	1k 1% 0,4W	3859	4822 051 10331	330Ω 2% 0,25W
3535 ^{3A}	4822 051 10151	150Ω 2% 0,25W	3672	4822 051 10103	10k 2% 0,25W	3860	4822 116 80176	1Ω 5% 0,5W
3535 ¹	4822 051 10221	220Ω 2% 0,25W	3673	4822 051 10472	4k7 2% 0,25W	3861	4822 051 10562	5k6 2% 0,25W
3535 ²	4822 051 51201	120Ω 1% 0,25W	3674	4822 051 10102	1k 2% 0,25W	3866	4822 051 10472	4k7 2% 0,25W
3539 ^{3A}	4822 053 20434	430k 5% 0,25W	3675 ^{1,2}	4822 116 52239	120k 5% 0,5W	3867	4822 116 80747	75Ω 5% 0,125W
3539 ^{1,2}	4822 053 20684	680k 5% 0,25W	3675 ^{3A}	4822 116 52284	47k 5% 0,5W	3868	4822 116 80747	75Ω 5% 0,125W
3540	4822 051 51201	120Ω 1% 0,25W	3676	4822 051 10103	10k 2% 0,25W	3869	4822 116 52175	100Ω 5% 0,5W
3542	4822 050 28201	820Ω 1% 0,6W	3677	4822 051 10118	1Ω 1% 0,25W	3870	4822 051 10103	10k 2% 0,25W

Main carrier

3871	4822 116 52175	100Ω 5% 0,5W
3872	4822 051 10102	1k 2% 0,25W
3874	4822 050 21008	1Ω 1% 0,6W
3875	4822 051 10154	150k 2% 0,25W
3879	4822 051 10122	1k2 2% 0,25W
3880	4822 051 10332	3k3 2% 0,25W
3881	4822 116 52217	270Ω 5% 0,5W
3882	4822 116 52217	270Ω 5% 0,5W
3884	4822 051 10681	680Ω 2% 0,25W
3885	4822 051 10821	820Ω 2% 0,25W
3886	4822 051 10472	4k7 2% 0,25W
3887	4822 116 52207	1k2 5% 0,5W
3888	4822 116 52289	5k6 5% 0,5W
3890	4822 051 10103	10k 2% 0,25W
9723	4822 116 52234	100K 5% 0,5W

Jumper

4221..	4822 051 10008	jumper
4318		
4319	4822 051 10152	1k5 2% 0,25W
4320..	4822 051 10008	jumper
4329		
4330	4822 051 10102	1k 2% 0,25W
4450..	4822 051 10008	jumper
4867		

5001	4822 157 60138	47μH
5240	4822 158 10551	27μH
5242	4822 158 10551	27μH
5301	4822 157 63075	7,95μH
5303	4822 157 53906	47μH
5304	4822 157 63074	7,6μH 4.3MHz
5306	4822 320 40081	470ns
5534 ^{3,4}	4822 157 82771	coil
5534 ^{1,2}	4822 158 10728	coil
5541 ¹	4822 157 63078	line driver
5545 ²	4822 140 10414	LOT 25"/28" BL
5545 ¹	4822 140 10417	LOT 25"/28" BM
5545 ³	4822 140 10418	LOT 21" MN
5545 ⁴	4822 140 10435	LOT 21" NN
5549	4822 157 53069	coil balance
5554 ¹	4822 157 63079	AT4042/97
5554 ³	4822 157 63161	AT4042/90G
5582	5322 157 52539	15μH
5588	4822 157 52505	33μH
5605 ¹	4822 157 53995	100μH
5606 ¹	4822 157 53995	100μH
5619 ^{1,2}	4822 156 21125	3,9μH
5619 ^{3,4}	4822 157 51235	4μH 7 10%
5625 ^{3,4}	4822 148 81159	SOPS trafo
5625 ^{1,2}	4822 148 81168	SOPS trafo
5630	4822 157 60387	1μH
5631	4822 158 10551	27μH
5632	4822 158 10551	27μH
5661	4822 157 52279	33μH 10%
5701	4822 157 52843	56μH 5%
5703	4822 157 52279	33μH 10%



6245	4822 130 30621	1N4148
6246	4822 130 81139	LLZ-C3V3
6247	4822 130 81139	LLZ-C3V3
6248	4822 130 80446	LL4148
6249	4822 130 80446	LL4148
6300	4822 130 80446	LL4148
6302	4822 130 34382	BZX79-C8V2
6303	4822 130 34382	BZX79-C8V2

6310	4822 130 80884	LLZ-C5V1
6315	4822 130 80446	LL4148
6316	4822 130 30621	1N4148
6317	4822 130 30621	1N4148
6318	4822 051 10008	jumper
6319	4822 130 34379	BZX79-C27
6320	4822 130 80877	BAV103
6367	4822 130 80884	LLZ-C5V1
6464	4822 130 81015	LLZ-C10
6465 ^{3,4}	4822 130 34281	BZX79-F15
6465 ¹	4822 130 61219	BZX79-F10
6465 ²	4822 130 80239	BZX79-F8V2
6466	4822 130 80446	LL4148
6467	4822 130 80446	LL4148
6503	4822 130 42488	BYD33D
6504	4822 130 80446	LL4148
6546	4822 130 41275	BY228/20
6547	4822 130 41602	BYW95C/20
6548	4822 130 30621	1N4148
6551	4822 130 42489	BYD33G
6560	4822 130 80446	LL4148
6561	4822 130 30864	BZX79-C68
6563	4822 130 80915	BYD74C
6570	4822 130 42489	BYD33G
6571	4822 130 42488	BYD33D
6580	4822 130 80791	BYV28-200/20
6580 ²	4822 130 82512	BYV29F-400
6585	4822 130 42489	BYD33G
6590	4822 130 81141	LLZ-C43
6591	4822 130 30621	1N4148
6592	4822 130 80928	BZX79-C30
6610	4822 130 80446	LL4148
6611	5322 130 34413	BZT03-C16
6612	4822 130 30621	1N4148
6617	4822 130 31456	BZV85-C5V1
6621	4822 130 42488	BYD33D
6622	4822 130 30621	1N4148
6624	4822 130 31933	1N5061
6625	4822 130 31933	1N5061
6630 ^{1,2}	4822 130 33531	BY229F-600
6630 ^{3,4}	4822 130 81175	BYD74G
6640	4822 130 80914	BYD74B
6641	4822 130 80914	BYD74B
6646	4822 130 42488	BYD33D
6648 ^{1,2}	4822 130 34488	BZX79-F12
6648 ^{3,4}	4822 130 61219	BZX79-F10
6649	4822 130 30621	1N4148
6660	4822 130 30621	1N4148
6661	4822 130 42488	BYD33D
6662	4822 130 80905	LLZ-F5V1
6663	4822 130 34281	BZX79-F15
6664 ^{3,4}	4822 130 30862	BZX79-F9V1
6664 ^{1,2}	4822 130 61219	BZX79-F10
6665	4822 130 80883	LLZ-C4V7
6666 ^{1,2}	4822 130 80887	LLZ-C36
6666 ^{3,4}	4822 130 81141	LLZ-C43
6669	4822 130 80446	LL4148
6670	4822 130 20272	E0102AA
6675	4822 130 80914	BYD74B
6705	4822 130 80905	LLZ-F5V1
6707	4822 209 72895	TLUV5320
6708	4822 130 81145	LLZ-F2V4
6709	4822 130 82037	HZT33



7003	4822 130 42133	BC817
7240 ^{1b}	4822 209 73253	TDA2613/N1
7240	4822 209 73853	TDA1521/N4
7243	5322 130 42012	BC858

7244	4822 130 42513	BC858C
7245	5322 130 42136	BC848C
7246	5322 130 42136	BC848C
7247	5322 130 42136	BC848C
7248	4822 130 61207	BC848
7249	4822 130 61207	BC848
7301	4822 130 61207	BC848
7302	5322 130 42012	BC858
7303	4822 130 61207	BC848
7305	4822 209 30389	TDA4510/V8
7306	4822 209 30837	TDA4650/V4/S1
7307	4822 209 31216	TDA4661
7308	4822 209 71512	TDA4665/V6
7309	4822 209 63733	TDA4680/V5
7310	4822 130 61207	BC848
7311	5322 209 10576	4053B
7312	5322 209 10576	4053B
7341	4822 130 61207	BC848
7370	4822 130 61207	BC848
7371	4822 130 61207	BC848
7372	4822 130 61207	BC848
7373	4822 130 61207	BC848
7374	4822 130 61207	BC848
7455	5322 130 42012	BC858
7470	4822 209 63423	TDA2579B/N2
7471	4822 130 61207	BC848
7472	5322 130 42136	BC848C
7500	4822 130 41344	BC337-40
7502	4822 130 60775	2SD1266P
7503	4822 130 61236	BD234
7504	4822 130 61207	BC848
7505	5322 130 42012	BC858
7540	4822 130 41344	BC337-40
7545 ^{3,4}	4822 130 61265	BU508AF
7546 ³	4822 130 42679	BUT11AF/1
7546 ⁴	4822 130 62735	BUT12AF
7591	5322 130 42012	BC858
7600	4822 209 63735	TDA8385/N2
7614 ¹	4822 209 30992	CNR50
7625	4822 130 62735	BUT12AF
7661	5322 130 44921	BD943
7663	4822 130 42513	BC858C
7671	4822 130 61207	BC848
7672	4822 130 61207	BC848
7703	4822 130 61207	BC848
7704	4822 130 61207	BC848
7705	4822 130 61207	BC848
7706	4822 130 61207	BC848
7707	4822 130 61207	BC848
7708	4822 209 31209	UP GR2STL1-5.2
7708	4822 209 31211	UP GR2STL2-5.2
7708	4822 209 31212	UP GR2STL3-1.0
7708	4822 209 31213	UP GR2M1/2-5.1
7710	4822 209 62098	ST24C02AB1
7850	4822 130 61207	BC848
7885	4822 130 61207	BC848
7886	4822 130 61207	BC848

¹⁾ 25"/28" Black Matrix

^{1b)} Black Matrix mono

²⁾ 25"/28" Black Line

³⁾ 21" Mini Neck

⁴⁾ 21" Narrow Neck

⁷⁾ system BG

⁸⁾ system I

L1 = English, German, French, Italian, Dutch, Portuguese
 L2 = English, Finnish, Danish, Swedish, Norwegian, Spanish
 L3 = English, German, French, Hungarian, Czech, Russian
 M1/2 = L1 + L2

Mains module

CRT module

4822 212 23664 mains module		
Mechanical parts		
0010A	4822 265 30389	2p male
0032A	4822 265 30389	2p male
0033A	4822 265 30877	3p male
		
2601A	4822 121 40487	100nF 10% 400V
2602	4822 126 11141	2,2nF 10% 1kV
2604	4822 126 11141	2,2nF 10% 1kV
		
3601A	4822 116 40211	PTC/NTC
3607	4822 050 23901	390Ω 1% 0,6W
		
5600A	4822 157 63073	filter
		
6602	4822 130 31933	1N5061
6603	4822 130 31933	1N5061
6604	4822 130 31933	1N5061
6605	4822 130 31933	1N5061

1	4822 212 30057	CRT Black Matrix
2	4822 212 30058	CRT Black Line
3	4822 212 30059	CRT Mini Neck
4	4822 212 30061	CRT Narrow Neck

Mechanical parts		
0017	4822 290 40283	5p male
0018	4822 267 40878	3p male
0019	4822 265 30378	4p male
0020	4822 290 40285	7p male
0021 ³	4822 255 70251	CRT socket
0021	4822 255 70261	CRT socket
	4822 320 20188	focus cable
	4822 267 31168	3p female
	4822 267 50824	4p female
	4822 265 40252	7p female
	4822 290 40287	5p female
	4822 492 70871	spring

		
2301 ⁴	4822 122 31789	18pF 5% 50V
2301	4822 122 32482	22pF 5% 63V
2301 ²	4822 126 10324	33pF 63V
2331 ¹	4822 122 31769	18pF 5% 50V
2331 ²	4822 122 31825	27pF 10% 50V
2331 ³	4822 122 32482	22pF 5% 63V
2331 ⁴	4822 122 32504	15pF 5% 50V
2344 ³	4822 124 21208	4,7μF 20% 50V
2344	4822 124 40246	4,7μF 20% 63V
2361 ³	4822 122 31769	18pF 5% 50V
2361 ²	4822 122 31825	27pF 10% 50V
2361 ⁴	4822 122 32139	12pF 5% 63V
2361 ¹	4822 122 32504	15pF 5% 50V
2391	4822 121 43878	27pF 2% 500V
2411	4822 124 80057	330μF 20% 16V
2421	4822 122 32482	22pF 5% 63V
2431	4822 121 41689	100nF 10% 250V
2432 ³	4822 124 80056	47μF 20% 16V
2432	5322 124 41381	22μF 20% 50V
2433	5322 121 50885	33nF 5% 1kV
2434	5322 122 32334	220pF 10% 100V
2520	5322 124 41299	68μF 20% 25V
2521	4822 122 32891	68nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2523	4822 122 33105	56nF 10% 63V
2526 ²	4822 122 32856	8,2nF 10% 63V
2526 ¹	5322 122 31648	12nF 10% 50V
2531 ⁴	4822 121 42408	220nF 5% 63V
2531	4822 121 43396	120nF 5% 63V
2532	4822 124 80066	1μF 20% 63V
2532 ⁴	4822 124 80067	4,7μF 20% 63V
2533	4822 124 40242	1μF 20% 63V

		
3301	4822 051 10131	130Ω 2% 0,25W
3302	4822 051 10362	3k6 2% 0,25W
3302 ²	4822 051 20222	2k2 5% 0,1W
3303	4822 051 10272	2k7 2% 0,25W
3304	4822 116 52239	120k 5% 0,5W
3304	4822 116 52239	120k 5% 0,5W
3309	4822 051 10118	1Ω 1 5% 0,25W
3309 ²	4822 051 10479	47Ω 2% 0,25W
3310	4822 116 52219	330Ω 5% 0,5W
3311 ²	4822 053 12123	12k 5% 3W
3311	4822 053 12153	15k 5% 3W
3312	4822 052 10271	270Ω 5% 0,33W
3313	4822 052 10271	270Ω 5% 0,33W
3314	4822 050 21502	1k5 1% 0,6W

3315	4822 051 10124	120k 2% 0,25W
3316	4822 051 10124	120k 2% 0,25W
3331	4822 051 10131	130Ω 2% 0,25W
3332	4822 051 10362	3k6 2% 0,25W
3332 ²	4822 051 20222	2k2 5% 0,1W
3333 ³	4822 051 10272	2k7 2% 0,25W
3333	4822 116 52263	2k 7 5% 0,5W
3334	4822 116 52239	120k 5% 0,5W
3338	4822 051 10118	1Ω 1 5% 0,25W
3338 ³	4822 051 10479	47Ω 2% 0,25W
3340	4822 116 52219	330Ω 5% 0,5W
3341	4822 053 12153	15k 5% 3W
3342	4822 052 10271	270Ω 5% 0,33W
3343	4822 052 10271	270Ω 5% 0,33W
3344	4822 050 21502	1k5 1% 0,6W
3345	4822 051 10681	680Ω 2% 0,25W
3361	4822 116 52208	130Ω 5% 0,5W
3362	4822 051 10362	3k6 2% 0,25W
3362 ²	4822 051 20222	2k2 5% 0,1W
3363	4822 051 10272	2k7 2% 0,25W
3364	4822 051 10223	22k 2% 0,25W
3368	4822 051 10118	1Ω 1 5% 0,25W
3368 ²	4822 051 10479	47Ω 2% 0,25W
3370	4822 116 52219	330Ω 5% 0,5W
3371 ²	4822 053 12103	10k 5% 3W
3371	4822 053 12153	15k 5% 3W
3372	4822 052 10271	270Ω 5% 0,33W
3373	4822 052 10271	270Ω 5% 0,33W
3374	4822 050 21502	1k5 1% 0,6W
3382 ²	4822 051 10392	3k9 2% 0,25W
3382	4822 051 10432	4k3 2% 0,25W
3383	4822 116 52284	47k 5% 0,5W
3384	4822 116 52277	39k 5% 0,5W
3385	4822 051 10104	100k 2% 0,25W
3391	4822 116 52234	100k 5% 0,5W
3392	4822 051 10103	10k 2% 0,25W
3395	4822 051 10122	1k2 2% 0,25W
3396	4822 051 10124	120k 2% 0,25W
3397	4822 051 10124	120k 2% 0,25W
3411	4822 116 52249	1k 8 5% 0,5W
3413	4822 116 52218	300Ω 5% 0,5W
3414	4822 051 10519	51Ω 2% 0,25W
3415	4822 116 52218	300Ω 5% 0,5W
3421 ³	4822 051 10104	100k 2% 0,25W
3421	4822 051 10184	180k 2% 0,25W
3422	4822 051 10682	6k8 2% 0,25W
3423	4822 051 10105	1M 5% 0,25W
3431	4822 052 10181	180Ω 5% 0,33W
3431 ⁴	4822 052 10271	270Ω 5% 0,33W
3432	4822 052 10399	39Ω 5% 0,33W
3433	4822 052 10108	1Ω 5% 0,33W
3434	4822 050 21502	1k5 1% 0,6W
3435	4822 050 21502	1k5 1% 0,6W
3436	4822 050 21805	1M 8 1% 0,6W
3442	4822 116 52239	120k 5% 0,5W
3443	4822 051 10272	2k7 2% 0,25W
3446	4822 051 10683	68k 2% 0,25W
3447	4822 051 10152	1k5 2% 0,25W
3448	4822 051 10152	1k5 2% 0,25W
3449	4822 051 10333	33k 2% 0,25W
3449 ²	4822 051 10393	39k 2% 0,25W
3512 ²	4822 051 10109	10Ω 2% 0,25W
3512 ¹	4822 051 10181	180Ω 2% 0,25W
3518 ²	4822 051 10101	100Ω 2% 0,25W
3518 ¹	4822 051 10152	1k5 2% 0,25W
3520 ¹	4822 116 52207	1k 2 5% 0,5W
3520 ²	4822 116 52211	150Ω 5% 0,5W
3521	4822 101 20902	4k 7 10% 0,05W
3522	4822 051 10152	1k5 2% 0,25W
3524	4822 051 10683	68k 2% 0,25W

CRT module

3525 ⁴	4822 100 20169	10k 10% 0,05W	7530 ^{Δ3}	4822 130 61207	BC848
3525	4822 100 20644	22k 10% 0,05W	7530	5322 130 41982	BC848B
3526	4822 051 10125	1M 2 5% 0,25W	7533	4822 130 60111	2SA1359
3526 ⁴	4822 051 10563	56k 2% 0,25W	7534	4822 130 44283	BC636
3527 ¹	4822 051 10104	100k 2% 0,25W	7536 ^Δ	5322 130 41982	BC848B
3527 ²	4822 051 10563	56k 2% 0,25W	7537	5322 130 41982	BC848B
3527 ²	4822 051 10823	82k 2% 0,25W	7538 ^Δ	5322 130 41982	BC848B
3528 ^{3,4}	4822 051 10681	680Ω 2% 0,25W			
3528	4822 051 20222	2k2 5% 0,1W	1)	25"/28" Black Matrix	
3529	4822 051 10008	jumper	2)	25"/28" Black Line	
3529 ^{3,4}	4822 051 10102	1k 2% 0,25W	3)	21" Mini Neck	
3530 ⁴	4822 051 10008	jumper	4)	21" Narrow Neck	
3530	4822 051 10102	1k 2% 0,25W			
3531 ⁴	4822 051 10008	jumper			
3531	4822 051 10104	100k 2% 0,25W			
3532	4822 051 10103	10k 2% 0,25W			
3533	4822 116 52303	8k 2 5% 0,5W			
3534	4822 052 10828	8Ω 2 5% 0,33W			
3571	4822 051 10273	27k 2% 0,25W			
3572	4822 051 10153	15k 2% 0,25W			
3575	4822 051 10182	1k8 2% 0,25W			
3576 ⁴	4822 051 10101	100Ω 2% 0,25W			
3576 ¹	4822 051 10151	150Ω 2% 0,25W			
3576 ²	4822 051 51201	120Ω 1% 0,25W			
3578	4822 116 52245	150k 5% 0,5W			
3580	4822 051 10103	10k 2% 0,25W			

Jumper

4001	4822 051 10008	jumper
4002	4822 051 10008	jumper

5401 ^{2,3}	4822 156 20915	33μH
5401 ⁴	4822 157 63788	18μH 10%
5401 ¹	4822 158 10563	82μH 7,5%
5530	4822 152 20559	

6301	4822 130 80877	BAV103
6331	4822 130 80877	BAV103
6345	4822 130 81015	LLZ-C10
6361	4822 130 80877	BAV103
6382	4822 130 80877	BAV103
6411	4822 130 32831	BZX79-F3V0
6421	4822 130 80446	LL4148
6519	4822 130 80446	LL4148

7302 ^{1,2}	4822 130 41773	BF869
7302 ^{3,4}	4822 130 41782	BF422
7303	4822 130 61207	BC848
7304	4822 130 41782	BF422
7305	4822 130 41646	BF423
7331 ^{1,2}	4822 130 41773	BF869
7331 ^{3,4}	4822 130 41782	BF422
7333	4822 130 61207	BC848
7334	4822 130 41782	BF422
7335	4822 130 41646	BF423
7345	5322 130 42012	BC858
7361 ^{1,2}	4822 130 41773	BF869
7361 ^{3,4}	4822 130 41782	BF422
7363	4822 130 61207	BC848
7364	4822 130 41782	BF422
7365	4822 130 41646	BF423
7383	4822 130 41782	BF422
7391	4822 130 41646	BF423
7402 ^Δ	5322 130 41982	BC848B
7411	4822 130 40938	BC548
7421	4822 130 42513	BC858C

Euro module

15	4822 212 30074	Euro module ECO
16	4822 212 30075	Euro module PIP

Mechanical parts

0023	4822 265 40442	10p male
0026	4822 265 40442	10p male
0030	4822 265 41086	9p male
0032	4822 267 40666	3p male
0048	4822 267 60247	euro connector
0100	4822 256 91879	holder
0050	4822 267 51084	9p female
0051	4822 290 40285	3p female



2800	4822 121 51252	470nF 5% 63V
2801	4822 121 51252	470nF 5% 63V
2802	4822 121 51252	470nF 5% 63V
2803	4822 121 51252	470nF 5% 63V
2804	4822 122 33496	100nF 10% 63V
2805	4822 122 33496	100nF 10% 63V
2806	4822 122 33496	100nF 10% 63V
2807	4822 124 41506	47μF 20% 16V
2810	4822 122 32142	270pF 5% 63V
2811	4822 122 32142	270pF 5% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32542	47nF 10% 63V
2814	4822 122 31759	18nF
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 33496	100nF 10% 63V
2817	4822 122 33496	100nF 10% 63V
2818	4822 122 33496	100nF 10% 63V
2819	4822 124 41525	100μF 20% 25V
2820	4822 121 42408	220nF 5% 63V
2821	4822 124 40433	47μF 20% 25V
2822	4822 124 40435	10μF 20% 50V
2823	4822 122 33496	100nF 10% 63V
2831	4822 124 40272	33μF 20% 16V
2833	4822 122 33496	100nF 10% 63V
2834	4822 122 33496	100nF 10% 63V



3800	4822 116 52189	30Ω 5% 0,5W
3801	4822 116 80747	75Ω 5% 0,125W
3802	4822 116 52211	150Ω 5% 0,5W
3803	4822 116 52211	150Ω 5% 0,5W
3804	4822 050 11002	1k 1% 0,4W
3805	4822 050 11002	1k 1% 0,4W
3806	4822 051 10334	330k 2% 0,25W
3807	4822 051 10334	330k 2% 0,25W
3808	4822 051 10334	330k 2% 0,25W
3809	4822 051 10334	330k 2% 0,25W
3810	4822 051 10682	6k8 2% 0,25W
3811	4822 051 20222	2k2 5% 0,1W
3812	4822 051 10331	330Ω 2% 0,25W
3813	4822 116 52201	75Ω 5% 0,5W
3814	4822 051 10152	1k5 2% 0,25W
3815	4822 051 10472	4k7 2% 0,25W
3816	4822 116 52296	6k 8 5% 0,5W
3817	4822 116 52224	470Ω 5% 0,5W
3818	4822 116 52224	470Ω 5% 0,5W
3819	4822 051 10008	jumper
3820	4822 051 10681	680Ω 2% 0,25W
3821	4822 051 10008	jumper
3822	4822 051 10681	680Ω 2% 0,25W
3823	4822 051 10331	330Ω 2% 0,25W
3824	4822 051 10331	330Ω 2% 0,25W
3825	4822 051 10223	22k 2% 0,25W
3829	4822 051 10102	1k 2% 0,25W
3830	4822 051 10683	68k 2% 0,25W
3831	4822 051 10123	12k 2% 0,25W

Euro module

Mono IF/sound module

3832	4822 051 10102	1k 2% 0,25W	5	4822 212 30064	IF MONO BGDK	2135	4822 121 42408	220nF 5% 63V
3833	4822 051 10279	27Ω 2% 0,25W	6	4822 212 30065	IF MONO BGLI	2136	5322 121 42661	330nF 5% 63V
3835 ¹⁶	4822 051 10221	220Ω 2% 0,25W	7	4822 212 30066	IF MONO BG	2137 ⁷	4822 122 31746	1000pF 5% 50V
3836 ¹⁵	4822 051 10102	1k 2% 0,25W	8	4822 212 30067	IF MONO I	2137	4822 126 11381	820pF 2%
3836	4822 051 10271	270Ω 2% 0,25W	Various			2137 ⁵	4822 126 12075	680pF 2% 63V
3837	4822 052 10278	207 5% 0,33W	1010 ⁶	4822 242 70936	OFW31952	2138 ⁶	4822 122 31771	390pF 5% 50V
3838	4822 116 80747	75Ω 5% 0,125W	1010 ⁷	4822 242 72374	OFWG1961	2138 ⁵	4822 126 12154	560pF 2% 50V
Jumper			1010 ⁶	4822 242 81156	OFWG1965	2139 ⁵	4822 122 31771	390pF 5% 50V
4842	4822 051 10008	jumper	1010 ⁵	4822 242 81186	OFWK2954	2139 ⁶	4822 126 12155	1nF 2% 50V
4844	4822 051 10008	jumper	1042 ⁸	4822 153 30025	6MHz	2141	4822 124 41577	4,7μF 20% 50V
4845	4822 051 10008	jumper	1042	4822 242 72211	5,5MHz	2143	4822 122 31797	22nF 10% 63V
4847	4822 051 10008	jumper	1043 ⁶	4822 153 30025	6MHz	2150	4822 121 42408	220nF 5% 63V
4848	4822 051 10008	jumper	1043 ⁵	4822 242 71375	6,5MHz	2151	4822 124 40195	150μF 20% 16V
4849	4822 051 10008	jumper	1043 ⁸	4822 242 71841	6,0MHz	2160	4822 122 31784	4,7nF 10% 50V
			1102	4822 242 70714	5,5MHz			
5800	4822 157 51462	10μH	1103 ⁶	4822 242 71841	6,0MHz	3012	4822 051 10562	5k6 2% 0,25W
			1103 ⁵	4822 242 72059	6,5MHz	3013	4822 051 10273	27k 2% 0,25W
6800	4822 130 80954	LLZ-C5V6	1150	4822 242 81157	OFWL9453	3014	4822 051 10823	82k 2% 0,25W
6801	4822 130 80446	LL4148				3015 ⁶	4822 051 10104	100k 2% 0,25W
6803	4822 130 30621	1N4148	2011	4822 124 40435	10μF 20% 50V	3015	4822 051 10473	47k 2% 0,25W
			2012	4822 124 41577	4,7μF 20% 50V	3016	4822 100 11819	100k 30% 0,1W
7800	5322 130 44921	BD943	2013	4822 122 31784	4,7nF 10% 50V	3017	4822 051 10823	82k 2% 0,25W
7801	5322 209 10576	4053B	2014 ⁶	4822 122 31784	4,7nF 10% 50V	3019	4822 051 10473	47k 2% 0,25W
7802	5322 209 10576	4053B	2014	4822 122 31797	22nF 10% 63V	3020	4822 051 10273	27k 2% 0,25W
7820	4822 130 61207	BC848	2015	5322 121 42498	680nF 5% 63V	3021	4822 051 10223	22k 2% 0,25W
7821	5322 130 42136	BC848C	2016	4822 122 31784	4,7nF 10% 50V	3030	4822 051 10223	22k 2% 0,25W
7823	4822 130 61207	BC848	2017	4822 122 33496	100nF 10% 63V	3031	4822 051 10474	470k 2% 0,25W
7824	5322 130 42136	BC848C	2018	4822 121 51252	470nF 5% 63V	3036	4822 051 10472	4k7 2% 0,25W
15) Non PIP			2019	4822 122 31784	4,7nF 10% 50V	3037	4822 051 10392	3k9 2% 0,25W
16) PIP			2035	4822 122 32507	6,8pF 5% 50V	3038	4822 051 10472	4k7 2% 0,25W
			2036	4822 122 31766	120pF 5% 50V	3039	4822 051 10392	3k9 2% 0,25W
			2037	4822 122 31766	120pF 5% 50V	3040	4822 051 10472	4k7 2% 0,25W
			2038	4822 122 31784	4,7nF 10% 50V	3041	4822 051 10221	220Ω 2% 0,25W
			2039	4822 122 32504	15pF 5% 50V	3042 ⁶	4822 051 10101	100Ω 2% 0,25W
			2040	4822 122 31784	4,7nF 10% 50V	3042 ⁵	4822 051 10221	220Ω 2% 0,25W
			2041	4822 122 31784	4,7nF 10% 50V	3042	4822 051 51201	120Ω 1% 0,25W
			2042	4822 122 32139	12pF 5% 63V	3043	4822 116 52175	100Ω 5% 0,5W
			2044	4822 122 31797	22nF 10% 63V	3044	4822 051 10271	270Ω 2% 0,25W
			2047	4822 122 33496	100nF 10% 63V	3046	4822 051 10681	680Ω 2% 0,25W
			2048	4822 124 41506	47μF 20% 16V	3047	4822 051 10822	8k2 2% 0,25W
			2049	4822 122 33496	100nF 10% 63V	3048	4822 101 11188	2k 30% LIN 0,1W
			2050	4822 124 40849	330μF 20% 16V	3049	4822 051 20183	18k 5% 0,1W
			2055	4822 122 31972	39pF 5% 50V	3050	4822 051 10272	2k7 2% 0,25W
			2056	4822 124 40435	10μF 20% 50V	3051	4822 051 10563	56k 2% 0,25W
			2057	4822 122 31981	33nF 50V	3052 ^{5,6}	4822 051 10471	470Ω 2% 0,25W
			2058	4822 122 31797	22nF 10% 63V	3052 ^{7,8}	4822 051 10561	560Ω 2% 0,25W
			2059	4822 124 41566	3,3μF 20% 50V	3055	4822 051 10103	10k 2% 0,25W
			2060	4822 122 31797	22nF 10% 63V	3056	4822 051 10471	470Ω 2% 0,25W
			2080	4822 122 33464	56pF 2%	3058	4822 051 10682	6k8 2% 0,25W
			2081	4822 122 31794	180pF 2% 50V	3060	4822 051 10471	470Ω 2% 0,25W
			2082	4822 122 32087	1,8pF 5% 50V	3061	4822 051 10333	33k 2% 0,25W
			2113	4822 124 41596	22μF 20% 50V	3062	4822 051 10563	56k 2% 0,25W
			2114	4822 122 31784	4,7nF 10% 50V	3063	4822 051 10272	2k7 2% 0,25W
			2115	4822 124 41577	4,7μF 20% 50V	3064	4822 051 10563	56k 2% 0,25W
			2116	4822 124 40435	10μF 20% 50V	3065	4822 051 10563	56k 2% 0,25W
			2117	4822 124 41576	2,2μF 20% 50V	3066	4822 051 10824	820k 2% 0,25W
			2118	4822 124 40432	1500μF 20% 25V	3067	4822 051 10681	680Ω 2% 0,25W
			2124	4822 122 32442	10nF 50V	3067 ⁶	4822 051 20222	2k2 5% 0,1W
			2125	4822 124 40195	150μF 20% 16V	3068	4822 051 10392	3k9 2% 0,25W
			2126	4822 121 43898	8,2nF 10% 50V	3080 ⁸	4822 051 10332	3k3 2% 0,25W
			2127	5322 121 42661	330nF 5% 63V	3080 ⁵	4822 051 10472	4k7 2% 0,25W
			2129	5322 121 42661	330nF 5% 63V	3080 ⁶	4822 051 10682	6k8 2% 0,25W
			2130	5322 121 42661	330nF 5% 63V	3080 ⁷	4822 051 20222	2k2 5% 0,1W
			2131	4822 122 31797	22nF 10% 63V	3081	4822 051 10829	82Ω 2% 0,25W
			2132	4822 122 31797	22nF 10% 63V	3104	4822 052 10479	47Ω 5% 0,33W
			2133	4822 122 31797	22nF 10% 63V	3105	4822 053 11271	270Ω 5% 2W
			2134	4822 124 41596	22μF 20% 50V	3107	4822 051 10151	150Ω 2% 0,25W
						3108	4822 051 10333	33k 2% 0,25W
						3109	4822 051 10223	22k 2% 0,25W

Mono IF/sound module

3110	4822 051 10562	5k6 2% 0,25W
3111	4822 051 10562	5k6 2% 0,25W
3112	4822 051 10472	4k7 2% 0,25W
3113	4822 051 10562	5k6 2% 0,25W
3115	4822 051 10562	5k6 2% 0,25W
3116	4822 050 11002	1k 1% 0,4W
3117	4822 051 10104	100k 2% 0,25W
3118 ⁵	4822 051 10332	3k3 2% 0,25W
3118 ⁶	4822 051 10472	4k7 2% 0,25W
3118	4822 051 20222	2k2 5% 0,1W
3119	4822 051 10472	4k7 2% 0,25W
3120	4822 051 10472	4k7 2% 0,25W
3121	4822 051 10104	100k 2% 0,25W
3122	4822 051 10331	330Ω 2% 0,25W
3123 ^{5,7}	4822 051 10473	47k 2% 0,25W
3123 ⁹	4822 051 10563	56k 2% 0,25W
3124	4822 051 10103	10k 2% 0,25W
3125	4822 051 10103	10k 2% 0,25W
3126	4822 051 10153	15k 2% 0,25W
3127	4822 051 10153	15k 2% 0,25W
3129	4822 051 10224	220k 2% 0,25W
3130	4822 051 10682	6k8 2% 0,25W
3131	4822 051 10102	1k 2% 0,25W
3132	4822 051 10392	3k9 2% 0,25W
3140	4822 051 10153	15k 2% 0,25W
3141	4822 051 10392	3k9 2% 0,25W
3142	4822 051 10273	27k 2% 0,25W
3143	4822 051 10182	1k8 2% 0,25W
3144	4822 051 10182	1k8 2% 0,25W
3150	4822 051 10103	10k 2% 0,25W
3151	4822 051 20222	2k2 5% 0,1W
3152	4822 051 10103	10k 2% 0,25W
3153	4822 051 10103	10k 2% 0,25W
3154	4822 051 10103	10k 2% 0,25W

Jumper

4010...	4822 051 10008	jumper
4102		

5010	4822 157 63081	0,56μH 20%
5010 ⁶	4822 157 63858	0,39μH
5035	4822 157 53534	0,34μH 5%
5036 ⁶	4822 157 53609	0,36μH 5%
5036	4822 157 63824	0,36μH 5%
		38,9mHz
5037	4822 157 53537	1,35μH 5%
5038	4822 157 63076	1,2μH 5%
5039	4822 157 52983	2N2
5041 ⁵	4822 153 20251	18μH 10%
5041 ⁶	4822 157 52983	2N2
5041	4822 157 53001	27μH 10%
5042 ^{7,8}	4822 152 20677	
5042 ^{5,6}	4822 157 53634	5,6μH 10%
5080	4822 157 53539	0,27μH 5%
5105	4822 157 52511	0,83μH
5150	4822 157 62552	

6036	4822 130 80446	LL4148
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	LL4148
6041	4822 130 80446	LL4148
6042	4822 130 80446	LL4148
6043	4822 130 80446	LL4148
6105	4822 130 80888	BA682
6106	4822 130 80888	BA682
6108	4822 130 80888	BA682

6112	4822 130 80884	LLZ-C5V1
6150	4822 130 80888	BA682
6151	4822 130 80888	BA682
		
7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858
7041	4822 130 61207	BC848
7100	4822 209 63105	TDA3843/V3
7101	4822 209 30278	TDA3827/V3
7102	4822 130 61207	BC848
7103	5322 130 42136	BC848C
7104	5322 130 41982	BC848B
7150	4822 130 61207	BC848
7151	4822 130 61207	BC848

5)	system BGBK
6)	system BGLI
7)	system BG
8)	system I

Stereo IF/sound module

7	4822 212 30069	IF STEREO BG
6	4822 212 30072	IF STEREO BGLI
5	4822 212 30073	IF STEREO BGDK

Various

1010 ⁷	4822 242 72554	OFWG3254
1010 ⁵	4822 242 73936	OFWK3255
1010 ⁶	4822 242 80205	OFWK3261
1042	4822 242 72211	5,5MHz
1101	4822 242 70485	5,74MHz
1102 ⁶	4822 242 71713	6,0MHz
1102 ⁵	4822 242 72057	6,5MHz
1103	4822 242 70714	5,5MHz
1150	4822 242 81157	OFWL9453
1200	4822 242 80208	10MHz



2011	4822 124 41506	47μF 20% 16V
2012	4822 124 41577	4,7μF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2035	4822 122 32506	5,6pF 5% 50V
2036	4822 122 31784	4,7nF 10% 50V
2037	4822 122 31784	4,7nF 10% 50V
2038	4822 122 33496	100nF 10% 63V
2039	4822 122 32083	8,2pF 5% 50V
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 32139	12pF 5% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47μF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330μF 20% 16V
2051	4822 122 33496	100nF 10% 63V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 41576	2,2μF 20% 50V
2057	4822 122 31981	33nF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41407	0,47μF 20% 63V
2080	4822 122 33464	56pF 2%
2081	4822 122 31794	180pF 2% 50V
2113	4822 124 40435	10μF 20% 50V
2114	4822 122 32442	10nF 50V
2115	4822 124 41509	33μF 20% 35V
2117	4822 124 41576	2,2μF 20% 50V
2118	4822 124 41576	2,2μF 20% 50V
2119	4822 122 31797	22nF 10% 63V
2120	4822 124 41576	2,2μF 20% 50V
2123	4822 124 40242	1μF 20% 63V
2123 ⁶	4822 124 41577	4,7μF 20% 50V
2124	4822 124 41576	2,2μF 20% 50V
2125	4822 122 10527	910pF 2% 50V
2126	4822 122 31784	4,7nF 10% 50V
2127	4822 122 31746	1000pF 5% 50V
2127 ⁷	4822 126 11381	820pF 2%
2127 ⁶	4822 126 12075	680pF 2% 63V
2128 ⁵	4822 122 10527	910pF 2% 50V
2128	4822 126 11381	820pF 2%
2129 ⁵	4822 122 31727	470pF 5% 63V
2129 ⁵	4822 122 33476	220pF 2% 50V
2130 ⁶	4822 124 40195	150μF 20% 16V
2133	4822 122 31797	22nF 10% 63V
2160	4822 122 31784	4,7nF 10% 50V
2200	4822 121 51252	470nF 5% 63V

Stereo IF/sound module

2201	4822 121 51252	470nF 5% 63V	3110	4822 051 10562	5k6 2% 0,25W	6109	4822 130 80446	LL4148			
2202	4822 121 51252	470nF 5% 63V	3112	4822 051 10562	5k6 2% 0,25W	6150	4822 130 80888	BA682			
2203	4822 122 31916	5,6nF 10% 63V	3113	4822 051 10562	5k6 2% 0,25W	6151	4822 130 80888	BA682			
2204	4822 121 42408	220nF 5% 63V	3115 ⁵	4822 051 10301	300Ω 2% 0,25W	6220	4822 130 81015	LLZ-C10			
2205	4822 122 31947	100nF 20% 63V	3115	4822 051 10331	330Ω 2% 0,25W						
2206	4822 121 51252	470nF 5% 63V	3117 ⁵	4822 051 10561	560Ω 2% 0,25W						
2207	4822 121 51252	470nF 5% 63V	3117	4822 051 10681	680Ω 2% 0,25W						
2208	4822 124 41509	33μF 20% 35V	3119	4822 051 10562	5k6 2% 0,25W						
2209	4822 124 41509	33μF 20% 35V	3120	4822 051 10562	5k6 2% 0,25W						
2210	4822 122 31947	100nF 20% 63V	3121 ⁵	4822 051 10272	2k7 2% 0,25W	7000	4822 209 72812	TDA2549/C4			
2211	4822 124 40198	470μF 20% 16V	3121 ⁶	4822 051 10562	5k6 2% 0,25W	7030	5322 130 42012	BC858			
2212	4822 124 40435	10μF 20% 50V	3122	4822 051 10122	1k2 2% 0,25W	7031	4822 130 61207	BC848			
2213	4822 122 31782	15nF 10% 50V	3123	4822 051 10561	560Ω 2% 0,25W	7035	4822 130 44121	BC338			
2214	4822 122 31782	15nF 10% 50V	3124	4822 051 10008	jumper	7040	5322 130 42012	BC858			
2215	4822 122 31981	33nF 50V	3125	4822 051 10102	1k 2% 0,25W	7100	4822 209 63059	TDA3856/V3			
2216	4822 122 31916	5,6nF 10% 63V	3126	4822 051 10102	1k 2% 0,25W	7101	4822 209 63784	TDA3857/V3			
2217	4822 122 31981	33nF 50V	3127	4822 051 10152	1k5 2% 0,25W	7102	4822 130 61207	BC848			
2218	4822 122 31916	5,6nF 10% 63V	3128	4822 051 10182	1k8 2% 0,25W	7104	4822 130 61207	BC848			
2219	4822 124 41577	4,7μF 20% 50V	3150	4822 051 10103	10k 2% 0,25W	7150	4822 130 61207	BC848			
2220	5322 121 42498	680nF 5% 63V	3151	4822 051 20222	2k2 5% 0,1W	7151	4822 130 61207	BC848			
2221	5322 121 42498	680nF 5% 63V	3152	4822 051 10103	10k 2% 0,25W	7200	4822 209 63967	TDA8417/V3			
2222	4822 124 41643	100μF 20% 16V	3153	4822 051 10103	10k 2% 0,25W	7220	4822 209 63734	TDA8425/V7			
2223	5322 122 31647	1nF 10% 63V	3154	4822 051 10103	10k 2% 0,25W	7232	5322 130 41982	BC848B			
			3200	4822 051 10331	330Ω 2% 0,25W	7233	4822 130 42513	BC858C			
3012	4822 051 10562	5k6 2% 0,25W	3201	4822 051 10331	330Ω 2% 0,25W	⁵⁾ system BGDK ⁶⁾ system BGLI ⁷⁾ system BG					
3013	4822 051 10273	27k 2% 0,25W	3202	4822 051 10563	56k 2% 0,25W						
3014	4822 051 10823	82k 2% 0,25W	3203	4822 051 10563	56k 2% 0,25W						
3015	4822 116 52234	100k 5% 0,5W	3204	4822 101 11191	10k 30% 0,1W						
3016	4822 100 11819	100k 30% 0,1W	3205	4822 052 10229	22Ω 5% 0,33W						
3017	4822 051 10823	82k 2% 0,25W	3206	4822 051 10478	4Ω 7% 0,25W						
3019	4822 051 10473	47k 2% 0,25W	3207	4822 051 10223	22k 2% 0,25W						
3020	4822 051 10273	27k 2% 0,25W	3208	4822 051 10272	2k7 2% 0,25W						
3021	4822 051 20183	18k 5% 0,1W	3209	4822 051 10333	33k 2% 0,25W						
3030	4822 051 10223	22k 2% 0,25W	3210	4822 050 11002	1k 1% 0,4W						
3031	4822 051 10474	470k 2% 0,25W	3211	4822 051 10101	100Ω 2% 0,25W						
3035	4822 051 10682	6k8 2% 0,25W	3213	4822 116 52233	10k 5% 0,5W						
3036	4822 051 10472	4k7 2% 0,25W	3214	4822 051 10102	1k 2% 0,25W						
3037	4822 051 10392	3k9 2% 0,25W	3215	4822 051 10102	1k 2% 0,25W						
3038	4822 051 10472	4k7 2% 0,25W	3216	4822 051 10101	100Ω 2% 0,25W						
3039	4822 051 10472	4k7 2% 0,25W	Jumper								
3040	4822 051 10472	4k7 2% 0,25W	4010..	4822 051 10008	jumper						
3041	4822 051 10221	220Ω 2% 0,25W	4205								
3042	4822 051 10151	150Ω 2% 0,25W									
3042	4822 051 51201	120Ω 1% 0,25W	5010	4822 157 53302							
3043	4822 116 52175	100Ω 5% 0,5W	5010 ⁶	4822 157 61898							
3044	4822 051 10271	270Ω 2% 0,25W	5035	4822 157 53534	0,34μH 5%						
3046	4822 116 52228	680Ω 5% 0,5W	5036 ⁶	4822 157 53609	0,36μH 5%						
3047	4822 051 10822	8k2 2% 0,25W	5036	4822 157 63824	0,36μH 5%						
3048	4822 101 11188	2k 30%LIN 0,1W	5037	4822 157 53537	1,35μH 5%						
3049	4822 051 20183	18k 5% 0,1W	5038	4822 157 63076	1,2μH 5%						
3050	4822 051 10272	2k7 2% 0,25W	5039	4822 152 20678	33μH 10%						
3051	4822 051 10563	56k 2% 0,25W	5080	4822 157 53539	0,27μH 5%						
3052	4822 051 10102	1k 2% 0,25W	5103	4822 157 52511	0,83μH						
3053	4822 116 52233	10k 5% 0,5W	5104	4822 157 63077	0,25μH 5%						
3055	4822 051 10103	10k 2% 0,25W	5105	4822 157 52511	0,83μH						
3056	4822 051 10471	470Ω 2% 0,25W	5042	4822 157 53634	5,6μH 10%						
3058	4822 051 10472	4k7 2% 0,25W	5042 ⁶	4822 157 62767							
3060	4822 051 10471	470Ω 2% 0,25W	5150	4822 157 63845	2,7μH						
3061	4822 051 10124	120k 2% 0,25W									
3062	4822 051 10563	56k 2% 0,25W	6037	4822 130 80888	BA682						
3063	4822 051 10272	2k7 2% 0,25W	6038	4822 130 80888	BA682						
3064	4822 051 10224	220k 2% 0,25W	6039	4822 130 30621	1N4148						
3065	4822 051 10124	120k 2% 0,25W	6040	4822 130 80446	LL4148						
3066	4822 051 10824	820k 2% 0,25W	6041	4822 130 80446	LL4148						
3081	4822 051 10569	56Ω 2% 0,25W	6042	4822 130 80446	LL4148						
3105	4822 053 11121	120Ω 5% 2W	6043	4822 130 80446	LL4148						
3106	4822 051 10561	560Ω 2% 0,25W	6106	4822 130 80888	BA682						
3107	4822 051 10102	1k 2% 0,25W	6107	4822 130 80888	BA682						
3108	4822 051 10561	560Ω 2% 0,25W	6108	4822 130 80888	BA682						
3109	4822 051 10562	5k6 2% 0,25W									

Nicom IF/sound module

7	4822 212 30071	IF NICAM BG	2143	5322 122 31647	1nF 10% 63V	3052	4822 051 10102	1k 2% 0,25W
8	4822 212 30068	IF NICAM I	2150	4822 122 32863	22nF 80% 50V	3055	4822 051 10103	10k 2% 0,25W
Various			2151	4822 124 41506	47µF 20% 16V	3056	4822 051 10471	470Ω 2% 0,25W
1010 ⁷	4822 242 72554	OFWG3254	2160	4822 122 31765	100pF 5% 50V	3058	4822 051 10682	6k8 2% 0,25W
1010 ⁸	4822 242 72553	OFWJ3251	2161	4822 122 31765	100pF 5% 50V	3071	4822 051 10124	120k 2% 0,25W
1042 ⁷	4822 242 72211	5,5MHz	2168	4822 122 31947	100nF 20% 63V	3072	4822 051 10471	470Ω 2% 0,25W
1042 ⁸	4822 153 30025	6MHz	2169	4822 124 41506	47µF 20% 16V	3073	4822 051 10824	820k 2% 0,25W
1100	4822 242 70485	5,74MHz	2170 ⁷	4822 122 31782	15nF 10% 50V	3074	4822 051 10563	56k 2% 0,25W
1105 ⁷	4822 242 70714	5,5MHz	2170 ⁸	4822 122 31916	5,6nF 10% 63V	3075	4822 051 10272	2k7 2% 0,25W
1105 ⁸	4822 242 71713	6,0MHz	2171 ⁷	4822 122 31981	33nF 50V	3076	4822 051 10224	220k 2% 0,25W
1116 ⁷	4822 242 72301	TH316BOM- 20800DAF	2171 ⁸	5322 122 31648	12nF 10% 50V	3077	4822 051 10124	120k 2% 0,25W
1116 ⁸	4822 242 72303	TH316BQM	2173	4822 122 31773	560pF 5% 50V	3078	4822 051 10102	1k 2% 0,25W
1127 ⁷	4822 242 81187	11,7MHz	2174	4822 122 33498	2,7nF 10% 63V	3079	4822 051 10101	100Ω 2% 0,25W
1127 ⁸	4822 242 81188	13,104MHz	2175	4822 122 32999	2,2N 5%	3100	4822 051 10561	560Ω 2% 0,25W
1138	4822 242 81189	17,472MHz	2176	4822 121 51252	470nF 5% 63V	3101	4822 051 10331	330Ω 2% 0,25W
1191	4822 071 54001	fuse T400mA	2177	4822 122 32863	22nF 80% 50V	3102	4822 051 10681	680Ω 2% 0,25W
1200	4822 242 80208	10MHz	2180 ⁷	4822 122 31782	15nF 10% 50V	3105	4822 051 10561	560Ω 2% 0,25W
—H—			2180 ⁸	4822 122 31916	5,6nF 10% 63V	3106	4822 051 10561	560Ω 2% 0,25W
2011	4822 124 41506	47µF 20% 16V	2181	5322 122 31648	12nF 10% 50V	3107	4822 051 10122	1k2 2% 0,25W
2012	4822 124 41577	4,7µF 20% 50V	2181	4822 122 31981	33nF 50V	3108	4822 051 20222	2k2 5% 0,1W
2013	4822 122 31797	22nF 10% 63V	2183	4822 122 31773	560pF 5% 50V	3109	4822 053 11121	120Ω 5% 2W
2014	4822 122 31797	22nF 10% 63V	2184	4822 122 33498	2,7nF 10% 63V	3110	4822 051 10102	1k 2% 0,25W
2015	5322 121 42498	680nF 5% 63V	2185	4822 122 32999	2,2nF 5%	3116	4822 051 10471	470Ω 2% 0,25W
2016	4822 122 31784	4,7nF 10% 50V	2186	4822 121 51252	470nF 5% 63V	3122	4822 051 10471	470Ω 2% 0,25W
2017	4822 122 33496	100nF 10% 63V	2187	4822 122 32863	22nF 80% 50V	3123	4822 051 10332	3k3 2% 0,25W
2042	4822 122 32139	12pF 5% 63V	2188	4822 124 41506	47µF 20% 16V	3124	4822 051 10332	3k3 2% 0,25W
2044	4822 122 31797	22nF 10% 63V	2189	4822 122 32863	22nF 80% 50V	3125	4822 051 10223	22k 2% 0,25W
2047	4822 122 33496	100nF 10% 63V	2190	4822 122 31947	100nF 20% 63V	3127	4822 051 10104	100k 2% 0,25W
2049	4822 122 33496	100nF 10% 63V	2191	4822 124 41643	100µF 20% 16V	3128	4822 051 10223	22k 2% 0,25W
2050	4822 124 40849	330µF 20% 16V	2193	4822 124 40849	330µF 20% 16V	3129	4822 051 10103	10k 2% 0,25W
2071	4822 122 31972	39pF 5% 50V	2194	4822 122 31947	100nF 20% 63V	3130	4822 051 10223	22k 2% 0,25W
2072	4822 124 40435	10µF 20% 50V	2198	4822 121 51252	470nF 5% 63V	3131	4822 051 10392	3k9 2% 0,25W
2073	4822 122 31981	33nF 50V	2200	4822 121 51252	470nF 5% 63V	3133	4822 051 10333	33k 2% 0,25W
2075	4822 122 31797	22nF 10% 63V	2201	4822 121 51252	470nF 5% 63V	3134	4822 051 10103	10k 2% 0,25W
2076	4822 124 41407	0,47µF 20% 63V	2202	4822 122 31768	120pF 5% 50V	3135	4822 051 10103	10k 2% 0,25W
2077	4822 122 31916	5,6nF 10% 63V	2203	4822 124 41509	33µF 20% 35V	3136	4822 051 10104	100k 2% 0,25W
2100	4822 124 40242	1µF 20% 63V	2204	4822 124 41509	33µF 20% 35V	3137	4822 051 10104	100k 2% 0,25W
2101	4822 122 31746	1000pF 5% 50V	2205	4822 122 31947	100nF 20% 63V	3138	4822 051 10105	1M 5% 0,25W
2102	4822 122 31746	1000pF 5% 50V	2207	4822 121 51252	470nF 5% 63V	3139	4822 051 10273	27k 2% 0,25W
2102	4822 122 32765	820pF 10% 63V	2209	4822 121 51252	470nF 5% 63V	3140	4822 051 10824	820k 2% 0,25W
2104	4822 122 31784	4,7nF 10% 50V	2210	4822 124 41577	4,7µF 20% 50V	3141	4822 051 10152	1k5 2% 0,25W
2106	4822 124 41576	2,2µF 20% 50V	2211	4822 121 42408	220nF 5% 63V	3142	4822 051 10103	10k 2% 0,25W
2107	4822 124 41576	2,2µF 20% 50V	2213	4822 124 40195	150µF 20% 16V	3143	4822 051 10102	1k 2% 0,25W
2108	4822 122 32862	10nF 80% 50V	2214	4822 122 31947	100nF 20% 63V	3150	4822 052 10278	2Q7 5% 0,33W
2109	4822 124 41509	33µF 20% 35V	2215	4822 124 41506	47µF 20% 16V	3158	4822 051 10473	47k 2% 0,25W
2110	4822 122 31947	100nF 20% 63V	2216	4822 122 31981	33nF 50V	3159	4822 051 10473	47k 2% 0,25W
2116	5322 122 31647	1nF 10% 63V	2217	5322 121 42498	680nF 5% 63V	3160	4822 051 10331	330Ω 2% 0,25W
2119	4822 124 40198	470µF 20% 16V	2218	4822 124 41643	100µF 20% 16V	3161	4822 051 10331	330Ω 2% 0,25W
2122	4822 122 32862	10nF 80% 50V	2219	5322 121 42498	680nF 5% 63V	3168	4822 052 10278	2Q7 5% 0,33W
2123	4822 122 31768	180pF 5% 50V	2220	4822 122 31916	5,6nF 10% 63V	3170 ⁷	4822 051 10682	6k8 2% 0,25W
2124	4822 122 31768	180pF 5% 50V	2223	4822 122 31916	5,6nF 10% 63V	3170 ⁸	4822 051 20183	18k 5% 0,1W
2125	4822 122 32597	6,8nF 10% 63V	2224	4822 122 31981	33nF 50V	3171 ⁷	4822 051 10122	1k2 2% 0,25W
2126	5322 122 31647	1nF 10% 63V	2225	4822 122 31782	15nF 10% 50V	3171 ⁸	4822 051 10332	3k3 2% 0,25W
2127	5322 122 31647	1nF 10% 63V	2226	4822 122 31782	15nF 10% 50V	3172	4822 051 10472	4k7 2% 0,25W
2128	4822 122 31808	150pF 10% 50V	—□—			3173	4822 051 10472	4k7 2% 0,25W
2129	4822 122 32862	10nF 80% 50V	3012	4822 051 10562	5k6 2% 0,25W	3177 ⁷	4822 051 10682	6k8 2% 0,25W
2130	4822 122 31808	150pF 10% 50V	3013	4822 051 10273	27k 2% 0,25W	3177 ⁸	4822 051 10472	4k7 2% 0,25W
2131	4822 122 31766	120pF 5% 50V	3014	4822 051 10823	82k 2% 0,25W	3180 ⁷	4822 051 10682	6k8 2% 0,25W
2132	4822 122 32862	10nF 80% 50V	3015	4822 051 10104	100k 2% 0,25W	3180 ⁸	4822 051 20183	18k 5% 0,1W
2133	4822 121 41854	150nF 5% 63V	3016	4822 100 11819	100k 30% 0,1W	3181 ⁷	4822 051 10122	1k2 2% 0,25W
2134	5322 122 31647	1nF 10% 63V	3019	4822 051 10473	47k 2% 0,25W	3181 ⁸	4822 051 10332	3k3 2% 0,25W
2135	4822 122 32862	10nF 80% 50V	3020	4822 051 10273	27k 2% 0,25W	3182	4822 051 10472	4k7 2% 0,25W
2136	4822 122 31808	150pF 10% 50V	3021	4822 051 20183	18k 5% 0,1W	3183	4822 051 10472	4k7 2% 0,25W
2137	4822 122 31947	100nF 20% 63V	3030	4822 051 10223	22k 2% 0,25W	3188	4822 052 10109	10Q 5% 0,33W
2138	4822 122 32862	10nF 80% 50V	3035	4822 051 10472	4k7 2% 0,25W	3190	4822 051 10471	470Ω 2% 0,25W
2140	4822 121 42408	220nF 5% 63V	3041	4822 051 10221	220Ω 2% 0,25W	3200	4822 101 11191	10k 30% 0,1W
2141	4822 122 31784	4,7nF 10% 50V	3042 ⁷	4822 051 10151	150Ω 2% 0,25W	3201	4822 051 10822	8k2 2% 0,25W
			3042 ⁸	4822 051 10101	100Ω 2% 0,25W	3202	4822 051 10512	5k1 2% 0,25W
			3044	4822 051 10271	270Ω 2% 0,25W	3203	4822 051 10563	56k 2% 0,25W
			3047	4822 050 21001	100Ω 1% 0,6W	3204	4822 051 10563	56k 2% 0,25W

Nicom IF/sound module

TXT module

3205	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10331	330Ω 2% 0,25W
3208	4822 051 10331	330Ω 2% 0,25W
3209	4822 051 10103	10k 2% 0,25W
3210	4822 051 10102	1k 2% 0,25W
3213	4822 051 10478	407 5% 0,25W
3214	4822 051 10223	22k 2% 0,25W
3215	4822 051 10272	2k7 2% 0,25W
3216	4822 051 10333	33k 2% 0,25W
3217	4822 051 10102	1k 2% 0,25W
3218	4822 051 10101	100Ω 2% 0,25W

Jumper

4000 ⁷	4822 051 10393	39k 2% 0,25W
4000 ⁸	4822 051 10392	3k9 2% 0,25W



5010	4822 157 53302	
5035	4822 157 53534	0,34μH 5%
5036	4822 157 63824	0,36μH 5%
5042	4822 157 62767	
5042	4822 157 53634	5,6μH 10%
5101	4822 157 52511	0,83μH
5102	4822 157 52511	0,83μH
5103	4822 157 63077	0,25μH 5%
5123	4822 157 50975	1 mH
5124	4822 157 50975	1 mH



6070	4822 130 80446	LL4148
6071	4822 130 80446	LL4148
6072	4822 130 80446	LL4148
6075	4822 130 80446	LL4148
6127	5322 130 34953	BB405B
6134	5322 130 31684	BB809
6140	4822 130 80446	LL4148
6190	4822 130 80446	LL4148
6191	4822 130 80954	LLZ-C5V6
6225	4822 130 81015	LLZ-C10



7000	4822 209 72812	TDA2549/C4
7035	4822 130 44121	BC338
7073	5322 130 42012	BC858
7078	4822 130 42513	BC858C
7100	4822 209 63784	TDA3857/V3
7106	4822 130 61207	BC848
7108	5322 130 42012	BC858
7120	4822 209 30909	TDA8732/C1
7133	4822 130 61207	BC848
7150	4822 209 30914	SAA7280/M2
7160	4822 130 61207	BC848
7161	4822 130 61207	BC848
7168	4822 209 73236	TDA1543/N2
7170	4822 209 83163	LM833N
7180	4822 209 83163	LM833N
7190	5322 130 41983	BC858B
7191	4822 130 44121	BC338
7200	4822 209 30147	TDA8415
7213	4822 209 63734	TDA8425/V7
7217A	5322 130 41982	BC848B

71 BG

m I

9	4822 212 30062	IVT TXT europe
10	4822 212 30063	IVT TXT nordic
11	4822 212 30076	TXT spain
12	4822 212 30077	TXT east-europe
13	4822 212 30078	TXT europe
14	4822 212 30079	TXT nordic

Connectors

4822 265 40469	BTB AU 6P
4822 265 40471	BTB AU 8P

Various

1800	4822 242 81191	27MHz
1820	4822 242 71508	6MHz
1870	4822 071 53151	Fuse 315mA



2801	4822 122 31797	22nF 10% 63V
2802	4822 122 31746	1000pF 5% 50V
2803	4822 122 31774	56pF 5% 50V
2804	4822 122 32504	15pF 5% 50V
2805	4822 122 33496	100nF 10% 63V
2806	4822 122 33496	100nF 10% 63V
2807	4822 122 33496	100nF 10% 63V
2808	4822 122 33496	100nF 10% 63V
2810	4822 122 33496	100nF 10% 63V
2820	4822 122 32504	15pF 5% 50V
2820 ¹¹	4822 126 10324	33pF 63V
2821	4822 122 32504	15pF 5% 50V
2821 ¹¹	4822 126 10324	33pF 63V
2823	4822 122 33496	100nF 10% 63V
2825	4822 122 31772	47pF 5% 50V
2826	4822 122 31772	47pF 5% 50V
2830	4822 122 33496	100nF 10% 63V
2832	4822 122 33496	100nF 10% 63V
2833	4822 122 33496	100nF 10% 63V
2834	4822 124 40435	10μF 20% 50V
2836	4822 122 31965	220pF 5% 63V
2850	4822 122 33496	100nF 10% 63V
2860	4822 122 31825	27pF 10% 50V
2861	4822 122 33496	100nF 10% 63V
2862	4822 122 31774	56pF 5% 50V
2863	4822 122 33496	100nF 10% 63V
2870	4822 124 41643	100μF 20% 16V
2871	4822 124 41506	47μF 20% 16V
2872	4822 124 40272	33μF 20% 16V



3802	4822 051 10273	27k 2% 0,25W
3803	4822 051 10103	10k 2% 0,25W
3804	4822 051 10122	1k2 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3806	4822 051 10221	220Ω 2% 0,25W
3809	4822 116 52176	10Ω 5% 0,5W
3810	4822 116 52207	1k 2 5% 0,5W
3811	4822 051 10122	1k2 2% 0,25W
3812	4822 051 10122	1k2 2% 0,25W
3813	4822 051 10122	1k2 2% 0,25W
3814	4822 051 10122	1k2 2% 0,25W
3815	4822 116 52207	1k 2 5% 0,5W
3816	4822 116 52207	1k 2 5% 0,5W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10471	470Ω 2% 0,25W
3821	4822 051 10102	1k 2% 0,25W
3822	4822 051 10103	10k 2% 0,25W
3823	4822 051 10105	1M 5% 0,25W
3824	4822 051 20222	2k2 5% 0,1W
3825	4822 051 20222	2k2 5% 0,1W
3826	4822 116 52175	100Ω 5% 0,5W

3827	4822 116 52175	100Ω 5% 0,5W
3830	4822 051 10829	82Ω 2% 0,25W
3831	4822 051 10821	820Ω 2% 0,25W
3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10102	1k 2% 0,25W
3834	4822 051 10681	680Ω 2% 0,25W
3835	4822 051 10103	10k 2% 0,25W
3836	4822 051 10473	47k 2% 0,25W
3837	4822 051 10102	1k 2% 0,25W
3838	4822 051 10473	47k 2% 0,25W
3839	4822 051 10151	150Ω 2% 0,25W
3840	4822 051 10228	202 5% 0,25W
3842	4822 051 10561	560Ω 2% 0,25W
3850	4822 116 52206	120Ω 5% 0,5W
3851	4822 051 10102	1k 2% 0,25W
3852	4822 051 10102	1k 2% 0,25W
3853	4822 116 52206	120Ω 5% 0,5W
3854	4822 051 10102	1k 2% 0,25W
3855	4822 051 10102	1k 2% 0,25W
3856	4822 116 52206	120Ω 5% 0,5W
3857	4822 051 10102	1k 2% 0,25W
3858	4822 051 10102	1k 2% 0,25W
3860	4822 051 10272	2k7 2% 0,25W
3861	4822 051 10562	5k6 2% 0,25W
3862	4822 051 10333	33k 2% 0,25W
3863	4822 051 10223	22k 2% 0,25W
3864	4822 051 10103	10k 2% 0,25W
3865	4822 051 10392	3k9 2% 0,25W
3866	4822 051 10272	2k7 2% 0,25W
3867	4822 116 52206	120Ω 5% 0,5W
3868	4822 051 10101	100Ω 2% 0,25W
3869	4822 051 10821	820Ω 2% 0,25W
3870	4822 050 24701	470Ω 1% 0,6W
3871	4822 050 22201	220Ω 1% 0,6W
3872	4822 051 10331	330Ω 2% 0,25W
3873	4822 051 10271	270Ω 2% 0,25W
3874	4822 051 10181	180Ω 2% 0,25W
3890 ⁹	4822 051 10102	1k 2% 0,25W
3890 ¹³	4822 051 10103	10k 2% 0,25W
3890 ¹⁴	4822 051 10153	15k 2% 0,25W
3890 ¹⁰	4822 051 10272	2k7 2% 0,25W
3890 ¹¹	4822 051 10562	5k6 2% 0,25W
3890 ¹²	4822 051 10822	8k2 2% 0,25W

Jumper

4801..	4822 051 10008	jumper
4862		



5800	4822 157 53302	
5801	4822 152 20677	
5834	4822 157 53001	27μH 10%
5870	4822 157 51157	3,3μH



6800	4822 130 82921	LLZ-F3V9
6840	4822 130 80446	LL4148
6850	4822 130 80446	LL4148
6851	4822 130 80446	LL4148
6852	4822 130 80446	LL4148
6860	4822 130 80446	LL4148
6870	4822 130 80905	LLZ-F5V1
6871	4822 130 81227	LLZ-F5V6



7800	4822 209 31214	SAA5246P/E
7800 ¹²	4822 209 31215	SAA5246P/H
7810	4822 209 61805	HY6264P-15
7810 ¹¹	4822 209 72681	MSM5165AL-12RS
7820 ¹²	4822 209 30281	PCF84C81A/097

TXT module

PIP module

7820 ^{9,10}	4822 209 31069	PCF84C81A/098
7820 ¹¹	4822 209 62479	MAB8461/W196
7821	4822 130 61207	BC848
7822	4822 130 61207	BC848
7831	4822 130 42513	BC858C
7833	5322 130 42136	BC848C
7850	5322 130 42136	BC848C
7851	5322 130 42136	BC848C
7852	5322 130 42136	BC848C
7860	4822 130 61207	BC848
7861	5322 130 60159	BC846B
7862	5322 130 42136	BC848C
7863	4822 130 61207	BC848
7870	4822 130 41344	BC337-40
7871	5322 130 42012	BC858
7872	4822 130 41344	BC337-40

9)	IVT Europe BGLI
10)	IVT Nordic
11)	CCT Spain
12)	CCT Europe BGDK
13)	CCT Europa BGLI
14)	CCT Nordic

4822 212 23605	PIP module
Connectors	
4822 265 30828	5p female
4822 265 40472	10p female
4822 265 40503	5p male

Various	
1155	4822 320 40051 delay line DL711
1201	4822 242 70304 8,867238 MHz
1212	4822 242 70738 7,159090 MHz

2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 124 40242	1μF 20% 63V
2161	4822 124 41576	2,2μF 20% 50V
2162	4822 122 32893	100nF 80% 50V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 32893	100nF 80% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 40242	1μF 20% 63V
2232	4822 124 41678	22μF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8μF 20% 50V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 32893	100nF 80% 50V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2270	4822 122 32893	100nF 80% 50V
2340	4822 124 41506	47μF 20% 16V
2345	4822 124 41506	47μF 20% 16V
2350	4822 124 40849	330μF 20% 16V
2351	4822 124 41643	100μF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 32893	100nF 80% 50V
2399	4822 122 31746	1000pF 5% 50V
2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V

2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31765	100pF 5% 50V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V
2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 5% 63V
2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1μF 20% 63V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2450	4822 122 32856	8,2nF 10% 63V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	470μF 10V
2466	4822 122 32893	100nF 80% 50V

2444	4822 051 10224	220k 2% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	jumper
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10332	3k3 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 20008	0Ω 5% 0,1W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3353	4822 052 10568	5Ω 5% 0,33W

PIP module

3354	4822 051 10271	270Ω 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52259	2k4 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3618	4822 052 10568	506 5% 0,33W
3621	4822 051 10105	1M 5% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

Jumper

4001..	4822 051 10008	jumper
4415		

5118	4822 157 60435	10,3μH 6%
5155	4822 157 60433	7,2μH 6%
5157	4822 157 60434	9,4μH 6%
5170	4822 157 60432	10,3μH
5175	4822 157 60432	10,3μH
5190	4822 157 60432	10,3μH
5400	4822 157 50943	12μH 10%
5402	4822 157 50943	12μH 10%
5403	4822 157 52333	100μH 10%
5406	4822 157 50943	12μH 10%
5408	4822 157 50943	12μH 10%
5410	4822 157 50943	12μH 10%



6300	4822 130 80906	LLZ-C7V5
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7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7126	4822 209 30389	TDA4510/V8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40

7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2Ω
7410	4822 209 63644	SDA9086-3
7755	4822 209 72363	TDA2579A/N8

Control module DAS

17	4822 212 30036	control module
18	4822 212 30029	control module

Connectors

▲	4822 265 30384	mains K11
▲	4822 265 40596	mains K25
	4822 264 40207	3p male
	4822 265 30951	4p male

Various

▲	4822 276 12597	Mains switch
	4822 267 31014	Headphone socket
	4822 276 50354	Switch assembly
	4822 212 23667	IR receiver
		GP1U52YP
	4822 209 72895	LED TLUV5320
	4822 256 91766	LED holder

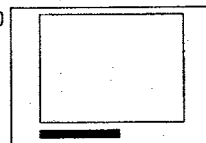


2233	4822 121 43526	47nF 5% 100V
2234	4822 121 43526	47nF 5% 100V
2713	5322 124 21189	100μF 20% 40V



3246	4822 116 52219	330Ω 5% 0,5W
3247	4822 116 52175	100Ω 5% 0,5W
3248	4822 116 52219	330Ω 5% 0,5W
3249	4822 116 52175	100Ω 5% 0,5W
3729	4822 116 52232	910Ω 5% 0,5W
3730	4822 116 52215	220Ω 5% 0,5W
3775	4822 116 52175	100Ω 5% 0,5W
3776 ¹⁷	4822 116 52264	5K6 5% 0,5W
3776 ¹⁸	4822 116 52289	27K 5% 0,5W
3777 ¹⁷	4822 116 52289	27K 5% 0,5W
3777 ¹⁸	4822 116 52264	5K6 5% 0,5W
3778 ¹⁷	4822 116 52233	56K 5% 0,5W
3778 ¹⁸	4822 116 52291	10K 5% 0,5W
3779 ¹⁷	4822 116 52291	10K 5% 0,5W
3779 ¹⁸	4822 116 52233	56K 5% 0,5W

17)



18)

